

EXHIBIT D

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

BLITZSAFE TEXAS, LLC,	§	
	§	
	§	
Plaintiff,	§	
	§	Case No. 2:15-cv-1274-JRG-RSP
v.	§	LEAD CASE
	§	
TOYOTA MOTOR CORPORATION;	§	<u>JURY TRIAL DEMANDED</u>
TOYOTA MOTOR SALES U.S.A., INC.;	§	
TOYOTA MOTOR MANUFACTURING	§	
TEXAS, INC.; TOYOTA MOTOR	§	
MANUFACTURING KENTUCKY, INC.;	§	
and TOYOTA MOTOR	§	
MANUFACTURING MISSISSIPPI, INC.,	§	
	§	
Defendants.	§	
	§	
	§	
	§	

**PLAINTIFF’S DISCLOSURE OF ASSERTED CLAIMS
AND INFRINGEMENT CONTENTIONS**

Plaintiff Blitzsafe Texas, LLC (“Blitzsafe”) hereby makes the following infringement disclosures under the Patent Local Rules with respect to United States Patent Nos. 7,489,786 (“the ’786 patent”) and 8,155,342 (“the ’342 patent”) (collectively, “Blitzsafe Patents”). Blitzsafe’s investigation is ongoing and discovery is in its preliminary stages. Accordingly, these disclosures are based on information available to Blitzsafe at this time. Blitzsafe reserves the right to supplement this disclosure after further discovery from the defendants and non-parties, particularly documents and other discovery regarding the defendants’ accused devices. Blitzsafe also reserves the right to assert additional claims of the Blitzsafe Patents, accuse different products, or find alternative literal and/or equivalent infringing elements in the defendant’s products.

I. DISCLOSURE OF ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS PURSUANT TO PATENT LOCAL RULE 3-1

A. ASSERTED CLAIMS

1. Toyota Accused Products

Defendants Toyota Motor Corporation, Toyota Motor Sales U.S.A., Inc., Toyota Motor Manufacturing, Texas, Inc., Toyota Motor Manufacturing Kentucky, Inc., and Toyota Motor Manufacturing Mississippi, Inc. (collectively, “Toyota”) have infringed and continue to infringe at least the following claims of the Blitzsafe Patents in connection with the Toyota Accused Products set forth below:

- Claims 1, 2, 4-8, 10, 13, 14, 23, 24, 44, 47, 57, 58, 60-65, 86, 88-92, 94, 97, and 98 of the '786 patent; and
- Claims 49-57, 62-64, 66, 68, 70, 71, 73-80, 94, 95, 97, 99-103, 106, 109-111, 113, 115, and 120 of the '342 patent.

2. Lexus Accused Products

Toyota has infringed and continues to infringe at least the following claims of the Blitzsafe patents in connection with the Lexus Accused Products set forth below:

- Claim 1, 2, 4-8, 10, 13, 14, 23, 24, 44, 47, 57, 58, 60-65, 86, 88-92, 94, 97, and 98 of the '786 patent; and
- Claims 49-57, 62-64, 66, 68, 70, 71, 73-80, 94, 95, 97, 99-103, 106, 109-111, 113, 115, and 120 of the '342 patent.

Blitzsafe reserves the right to seek leave of court to add, delete, substitute, or otherwise amend this list of asserted claims should further discovery, the Court’s claim construction, or other circumstances so merit.

B. ACCUSED INSTRUMENTALITIES

1. Toyota Accused Products

a. '786 Patent

Blitzsafe is currently aware that the infotainment systems of the following accused Toyota brand Toyota automobiles infringe the '786 Patent:

2010-2016 Toyota 4Runner

2011-2016 Toyota Avalon

2010-2016 Toyota Camry

2011-2016 Toyota Corolla

2011-2016 Toyota Highlander

2010-2016 Toyota Land Cruiser

2012-2016 Toyota Prius

2012-2016 Toyota RAV4

2010-2016 Toyota Sequoia

2011-2016 Toyota Sienna

2012-2016 Toyota Tacoma

2010-2016 Toyota Tundra

2010-2016 Toyota Venza

b. '342 Patent:

Blitzsafe is currently aware that the infotainment systems of the following accused Toyota brand Toyota automobiles infringe the '342 Patent:

2010-2016 Toyota 4Runner

2011-2016 Toyota Avalon

2010-2016 Toyota Camry
2011-2016 Toyota Corolla
2011-2016 Toyota Highlander
2010-2016 Toyota Land Cruiser
2012-2016 Toyota Prius
2012-2016 Toyota RAV4
2010-2016 Toyota Sequoia
2011-2016 Toyota Sienna
2012-2016 Toyota Tacoma
2010-2016 Toyota Tundra
2010-2016 Toyota Venza

2. Lexus Accused Products

a. '786 Patent:

Blitzsafe is currently aware that the infotainment systems of the following accused Lexus brand Toyota automobiles infringe the '786 Patent:

2010-2016 Lexus CT
2010-2016 Lexus IS
2010- 2012 Lexus HS
2010-2016 Lexus GS
2010-2016 Lexus LS
2015-2016 Lexus RC
2012 Lexus LFA

2015-2016 Lexus NX

2010-2016 Lexus GX

2010-2016 Lexus LX

2009 Lexus CT, Lexus IS, Lexus HS, Lexus ES, Lexus GS, Lexus LS, Lexus RX,
Lexus GX, Lexus LX with Lexus Interface Kit for iPod

b. '342 Patent:

Blitzsafe is currently aware that the infotainment systems of the following accused Lexus brand Toyota automobiles infringe the '342 Patent:

2010-2016 Lexus CT

2010-2016 Lexus IS

2010- 2012 Lexus HS

2010-2016 Lexus GS

2010-2016 Lexus LS

2015-2016 Lexus RC

2012 Lexus LFA

2015-2016 Lexus NX

2010-2016 Lexus GX

2010-2016 Lexus LX

Blitzsafe reserves the right to amend this list of accused instrumentalities, as well as other information contained in this document and the exhibits hereto, to incorporate new information learned during the course of discovery, including, but not limited to, the inclusion of newly released products or any other equivalent devices ascertained through discovery.

C. CLAIM CHARTS

Claim charts identifying a location of every element of every asserted claim of the Blitzsafe Patents within accused products are attached hereto as Appendices A–D. Blitzsafe believes that the Toyota Accused Products and Lexus Accused Products cited in the claim charts are representative of the Toyota Accused Products and Lexus Accused Products. Blitzsafe reserves the right to amend these claim charts as well as other information contained in this document and the appendices hereto, to incorporate new information learned during the course of discovery, including, but not limited to, information that is not publically available or readily discernible without discovery. Blitzsafe further reserves the right to amend these claim charts, as well as other information contained in this document and the exhibits attached hereto, pursuant to Patent Local Rules 3-1(g) and 3-6.

D. LITERAL INFRINGEMENT AND DOCTRINE OF EQUIVALENTS

Blitzsafe asserts that, under the proper construction of the asserted claims and their claim terms, the limitations of the asserted claims of the Blitzsafe Patents are literally present in the Toyota Accused Products and Lexus Accused Products as set forth in the claim charts attached hereto as Appendices A–D. Blitzsafe contends that any and all elements found not to be literally infringed are infringed under the doctrine of equivalents because the differences between the claimed inventions and the accused instrumentalities, if any, are insubstantial.

Blitzsafe also contends that Toyota directly infringes the asserted claims by making, using, offering for sale, selling, and importing in to the United States the accused instrumentalities as well as indirectly infringe by contributing to and/or inducing others (*e.g.*, Toyota's customers or its customers' customers) to directly infringe those claims by making, using, offering for sale or selling the Toyota Accused Products and Lexus Accused Products.

Pursuant to Patent Local Rule 3-6(a)(1), Blitzsafe reserves the right to amend its Infringement Contentions as to literal infringement or infringement under the doctrine of equivalents in light of the Court's claim construction.

E. PRIORITY DATES

Each of the asserted claims of the '786 patent is entitled to the priority date of U.S. Patent Application No. 10/316,961, filed December 11, 2002, under P.R. 3-1(e). Blitzsafe reserves the right to establish an earlier date of invention based upon actions related to conception and reduction to practice of the claimed inventions.

Each of the asserted claims of the '342 patent is entitled to the priority date of U.S. Patent Application No. 11/475,847, filed June 27, 2006, under P.R. 3-1(e). Blitzsafe reserves the right to establish an earlier date of invention based upon actions related to conception and reduction to practice of the claimed inventions.

F. BLITZSAFE'S OWN PRODUCTS

Blitzsafe is continuing to investigate what products and/or historical products may practice the claimed inventions. At the present time Blitzsafe's investigation is focused on the products in the list attached hereto. Blitzsafe's investigation is ongoing, and Blitzsafe will supplement these contentions following its investigation (and claim construction as necessary).

II. PRODUCTION OF DOCUMENTS PURSUANT TO PATENT LOCAL RULE 3-2

Blitzsafe is producing or making available for inspection documents that are in Blitzsafe's possession, custody or control as set forth in Patent Local Rule 3-2. A Blitzsafe 3-2 Production Index identifying these documents is attached hereto.

This preliminary identification of documents is for convenience and is not an admission that each document falls within any exemplary categories in the Patent Local Rules, or that any document qualifies as prior art. Blitzsafe is continuing with its investigation, particularly with respect to ESI. Thus, Blitzsafe reserves its right to add to, delete from, or otherwise modify its disclosures in this section as its investigation proceeds.

Production of these documents is governed by Patent Local Rule 2-2, and, with the exception of documents produced pursuant to P.R. 3.2(c) and public documents listed in the infringement charts, are considered "Confidential – Outside Attorneys Eyes Only" and disclosure of the confidential document or information shall be limited to each party's outside attorney(s) of record and the employees of such outside attorney(s).

Dated: November 24, 2015

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on November 24, 2015 a true and correct copy of the above and foregoing document has been served by email on:

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Peter Lambrianakos

BLITZSAFE 3-2 PRODUCTION INDEX

3-2(a)

Bates Start	Bates End
BLITZSAFE-0000001	BLITZSAFE-0000009

3-2(b)

Bates Start	Bates End
BLITZSAFE-0000010	BLITZSAFE-0009940

3-2(c)

Bates Start	Bates End
BLITZSAFE-0009941	BLITZSAFE-0012281

Public Documents Listed in Infringement Charts

Bates Start	Bates End
BS-TOY-0000001	BS-TOY-0002232


BLITZSAFE'S OWN PRODUCTS

AUDI / M-LINK1 V.1	FORD / AUX DMX V.3	VOL / XM DMX CMD V.1
AUDI / M-LINK1 V.1B	FORD / CAN AUX	VOL / XM DMX CMD V.2
AUDI / M-LINK1 V.1B SAT	FORD / CAN AUX DUAL	VW / XM DMX CMD V.3
BMW / M-LINK1 V.1	HON / AUX DMX V.1	VW / XM DMX CMD V.3A
BMW / M-LINK1 V.1 DSP	HON / AUX DMX V.2X	VW / XM DMX CMD V.5
CHY / M-LINK1 V.1A	HON / AUX V.1	AUDI / XM DMX PIO V.1
CHY / M-LINK1 V.1AL	LEX / AUX DMXV.1	AUDI / XM DMX PIO V.1B
FLROV / M-LINK1 V.1	LROV / AUX DMX V.1	BMW / XM DMX PIO V.1
FORD / CAN M-Link2	MB / AUX DMX V.1	BMW / XM DMX PIO V.1 DSP
FORD / M-LINK1 V.1B	MB / AUX DMX V.1B	FLROV / XM DMX PIO V.1
FORD / M-LINK1 V.1C	MINI / AUX DMX V.1	FORD / XM DMX PIO V.1B
FORD / M-LINK1 V.1TS	TOY / AUX DMX V.1	FORD / XM DMX PIO V.1C
FORD / M-LINK1 V.3	TOY / AUX DMX V.2	FORD / XM DMX PIO V.1TS
HON / M-LINK1 DMX V.1	TP / AUX DMX V.1	FORD / XM DMX PIO V.3
HON / M-LINK1 V.1	VOL / AUX DMX V.1	HON / XM DMX PIO V.1
HON / M-LINK1 V.2X	VOL / AUX DMX V.2	HON / XM PIO V.1
HON / M-LINK1 V.2XT	VW / AUX DMX V.1	LROV / XM DMX PIO V.1
HON / M-LINK1 V.3X	VW / AUX DMX V.1 SAT	MB / XM DMX PIO V.1
LEX / M-LINK1 V.1	VW / AUX DMX V.3	MB / XM DMX PIO V.1B
LROV / M-LINK1 V.1	VW / AUX DMX V.3A	TOY / XM DMX PIO V.1
MB / M-LINK1 V.1B	VW / AUX DMX V.5	TOY / XM DMX PIO V.2
MB / M-LINK1 V.1	BMW/XM SLD 00	VOL / XM DMX PIO V.1
MINI / M-LINK1 V.1	BMW/XM SLD 01	VOL / XM DMX PIO V.2
TOY / M-LINK1 V.1	BMW/XM SLD 03	VW / XM DMX PIO V.3
TOY / M-LINK1 V.2	AUDI / XM DMX CMD V.1	VW / XM DMX PIO V.3A
TOY / M-LINK1 V.2T	AUDI / XM DMX CMD V.1B	VW / XM DMX PIO V.5
VOL / M-LINK1 V.1	BMW / XM DMX CMD V.1	HON/NAV ITI V.1
VOL / M-LINK1 V.2	BMW / XM DMX CMD V.1 DSP	HON/NAV ITI V.2
VW / M-LINK1 V.1	CHY / XM DMX CMD V.1A	TOY/NAV ITI V.1
VW / M-LINK1 V.1 SAT	CHY / XM DMX CMD V.1AL	AUDI / BLUETOOTH V.1
VW / M-LINK1 V.3	FLROV / XM DMX CMD V.1	AUDI / BLUETOOTH V.1B
VW / M-LINK1 V.3A	FORD / XM DMX CMD V.1B	AUDI / BLUETOOTH V.1B SAT
VW / M-LINK1 V.5	FORD / XM DMX CMD V.1C	BMW / BLUETOOTH V.1
AUDI / AUX DMX V.1	FORD / XM DMX CMD V.1TS	BMW / BLUETOOTH V.1 DSP
AUDI / AUX DMX V.1B	FORD / XM DMX CMD V.3	CHY / BLUETOOTH V.1A
AUDI / AUX DMX V.1B SAT	HON / XM CMD V.1	CHY / BLUETOOTH V.1AL
BMW / AUX DMX V.1	HON / XM DMX CMD V.1	FLROV /BLUETOOTH V.1
BMW / AUX DMX V.1 DSP	LROV / XM DMX CMD V.1	FORD / BLUETOOTH 2 DUAL
CHY / AUX DMX V.1A	MB / XM DMX CMD V.1	FORD / BLUETOOTH 2
CHY / AUX DMX V.1AL	MB / XM DMX CMD V.1B	FORD / BLUETOOTH V.1B
FLROV / AUX DMX V.1	MINI / XM DMX CMD V.1	FORD /BLUETOOTH V.1C
FORD / AUX DMX V.1C	TOY / XM DMX CMD V.1	FORD / BLUETOOTH V.1TS
FORD / AUX DMX V.1TS	TOY / XM DMX CMD V.2	FORD /BLUETOOTH V.3

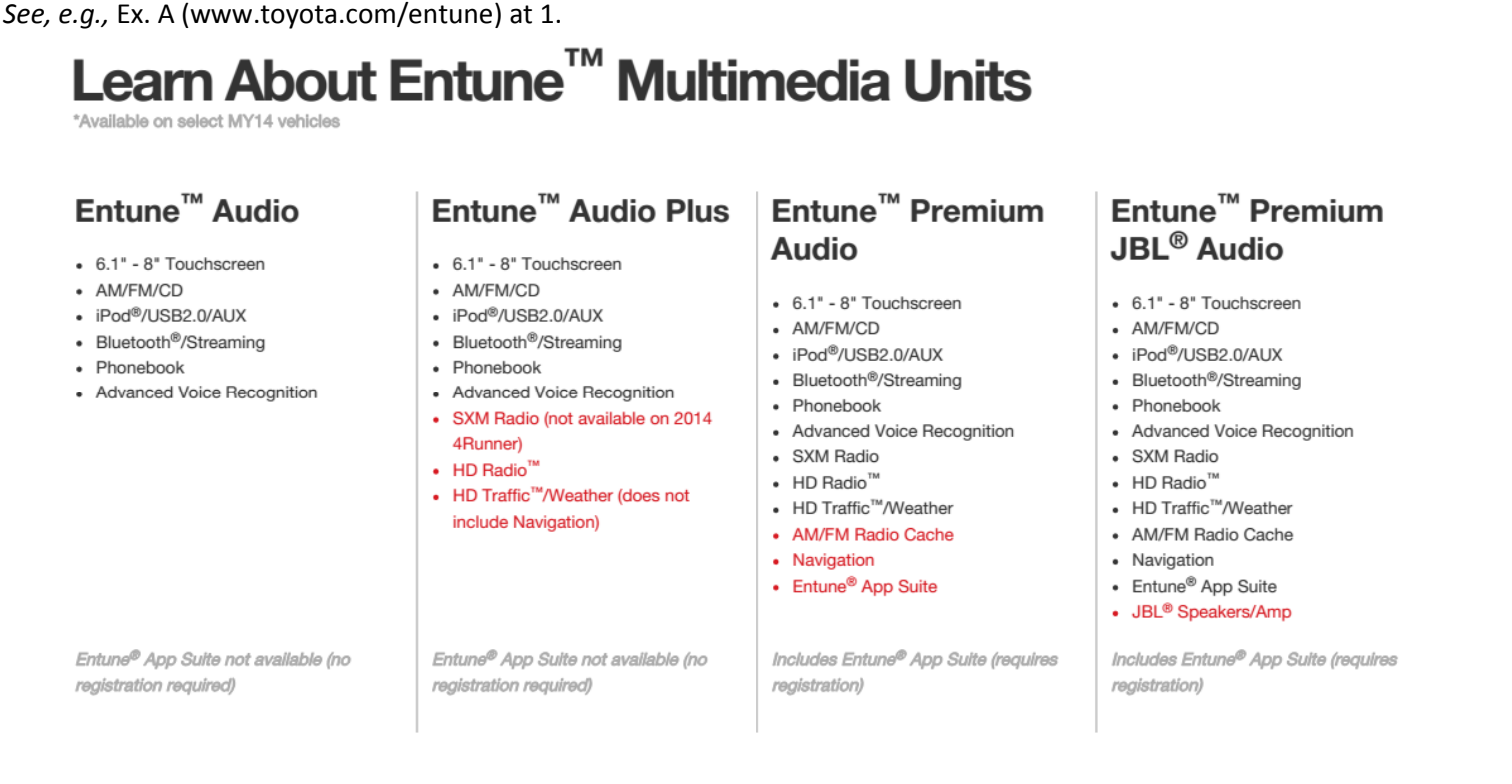
HON / BLUETOOTH DMX V.1
HON / BLUETOOTH V.1
HON / BLUETOOTH V.3X
HON /BLUETOOTH V.2X
HON / BLUETOOTH V.2XT
LEX / BLUETOOTH V.1
LROV /BLUETOOTH V.1
MB / BLUETOOTH V.1B
MB / BLUETOOTH V.1
MB / BLUETTOTH V.2
MINI /BLUETOOTH V.1
TOY / BLUETOOTH V.1
TOY / BLUETOOTH V.2
TOY / BLUETOOTH V.2T
VOL / BLUETOOTH V.1
VOL / BLUETOOTH V.2
VW / BLUETOOTH V.1
VW / BLUETOOTH V.1 SAT
VW / BLUETOOTH V.3
VW / BLUETOOTH V.3A
VW / BLUETOOTH V.5

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

In these Infringement Contentions, Blitzsafe contends that at least the following claims of U.S. Patent No. 7,489,786 (“’786 patent”) identified below are infringed by the infotainment systems in accused Toyota automobiles. Blitzsafe does not concede that any claims of the ’786 patent that are not listed below are not infringed by the infotainment systems in accused Toyota automobiles. Moreover, the citations to certain documents and other information below are intended to be exemplary only and in no way foreclose Blitzsafe from citing or relying on additional documents, information, and/or testimony at a later time. These contentions are preliminary in nature, and an analysis of Toyota’s infotainment systems, internal documentation and/or testimony from relevant witnesses may be necessary to more fully and accurately describe the infringing features of its accused products. Accordingly, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions once such additional information is made available to Blitzsafe. Furthermore, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions as discovery in this case progresses; in view of the Court’s claim construction order(s); in view of any positions taken by Toyota, including but not limited to positions on claim construction, invalidity, and/or non-infringement; and in connection with the preparation and exchange of expert reports.

Claim	Support
<p>1[P]. An audio device integration system comprising:</p>	<p>Each accused Toyota automobile includes a device integration system that supports docking integration of audio/video devices such as freely lying or docked smartphones and other smart devices as well as MP3 players (e.g., iPods and iPhones playing MP3 files). Accused Toyota automobiles also support device integration of smartphones and other smart devices (e.g., iPods and iPhones) for streaming audio over the Internet via online radio stations such as Google Play Music, Spotify and Pandora apps.</p> <div style="text-align: center;">  <p>Entune™</p> </div> <p>Entune now encompasses the complete audio display stack of your vehicle - including Bluetooth, voice recognition, USB, aux port, and your display screen. On select, premium audio head units, you have access to navigation and a rich set of Apps and Data Services, now referred to as the “Entune® App Suite”.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support				
	<p>See, e.g., Ex. A (www.toyota.com/entune) at 1.</p>  <p>Learn About Entune™ Multimedia Units *Available on select MY14 vehicles</p> <table border="0"> <tr> <td> <p>Entune™ Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p><i>Entune® App Suite not available (no registration required)</i></p> </td> <td> <p>Entune™ Audio Plus</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p><i>Entune® App Suite not available (no registration required)</i></p> </td> <td> <p>Entune™ Premium Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p><i>Includes Entune® App Suite (requires registration)</i></p> </td> <td> <p>Entune™ Premium JBL® Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p><i>Includes Entune® App Suite (requires registration)</i></p> </td> </tr> </table> <p>See Ex. A (www.toyota.com/entune) at 1.¹</p>	<p>Entune™ Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p><i>Entune® App Suite not available (no registration required)</i></p>	<p>Entune™ Audio Plus</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p><i>Entune® App Suite not available (no registration required)</i></p>	<p>Entune™ Premium Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p><i>Includes Entune® App Suite (requires registration)</i></p>	<p>Entune™ Premium JBL® Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p><i>Includes Entune® App Suite (requires registration)</i></p>
<p>Entune™ Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p><i>Entune® App Suite not available (no registration required)</i></p>	<p>Entune™ Audio Plus</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p><i>Entune® App Suite not available (no registration required)</i></p>	<p>Entune™ Premium Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p><i>Includes Entune® App Suite (requires registration)</i></p>	<p>Entune™ Premium JBL® Audio</p> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p><i>Includes Entune® App Suite (requires registration)</i></p>		

¹ Blitzsafe has produced Ex. A, www.toyota.com/entune, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000004 - 9.


Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>iPod®/USB 2.0/AUX</p> <p>Connect an iPod®</p> <p>Connect your iPod®¹¹ or USB ¹² device and play your music through your multimedia system.</p> <p>Connecting an iPod® ¹¹ using the USB port enables users to enjoy music or other iPod® ¹¹ content via the vehicle's speakers.</p> <p><i>Note: "Press" refers to hard buttons on the sides of the screen; "Touch" refers to the display screen (phone or multimedia system).</i></p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect an iPod® ¹¹ 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. The iPod® ¹¹ will begin playing and song information will be displayed 4. Touch Source to select an alternate source <p>Play an iPod®</p> <p>The title of the album and song you are currently listening to will be displayed, as well as the album art if available</p> <ol style="list-style-type: none"> 1. Touch II to pause the track 2. Touch > to resume playing the track 3. Press and hold the Λ SEEK / V TRACK button to fast-forward or rewind. When you release the button, the player will start playing from that position. 4. Press and release the Λ SEEK / V TRACK button to advance to the next track or go back to the previous track <p>Connect a USB Device</p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect a USB memory device 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. Plug in memory device 4. Music will begin playing <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 1.²</p>

² Blitzsafe has produced Ex. B, <http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015> simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000010 - 11.

Claim	Support
	 <p>USB/iPod®</p> <p>Hook up via a USB data cable ¹² to the USB port to gain full iPod® ¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB ¹² flash drive.</p> <p>See Ex. A (www.toyota.com/entune) at 4.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p>

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Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116, 117.</i>³</p>

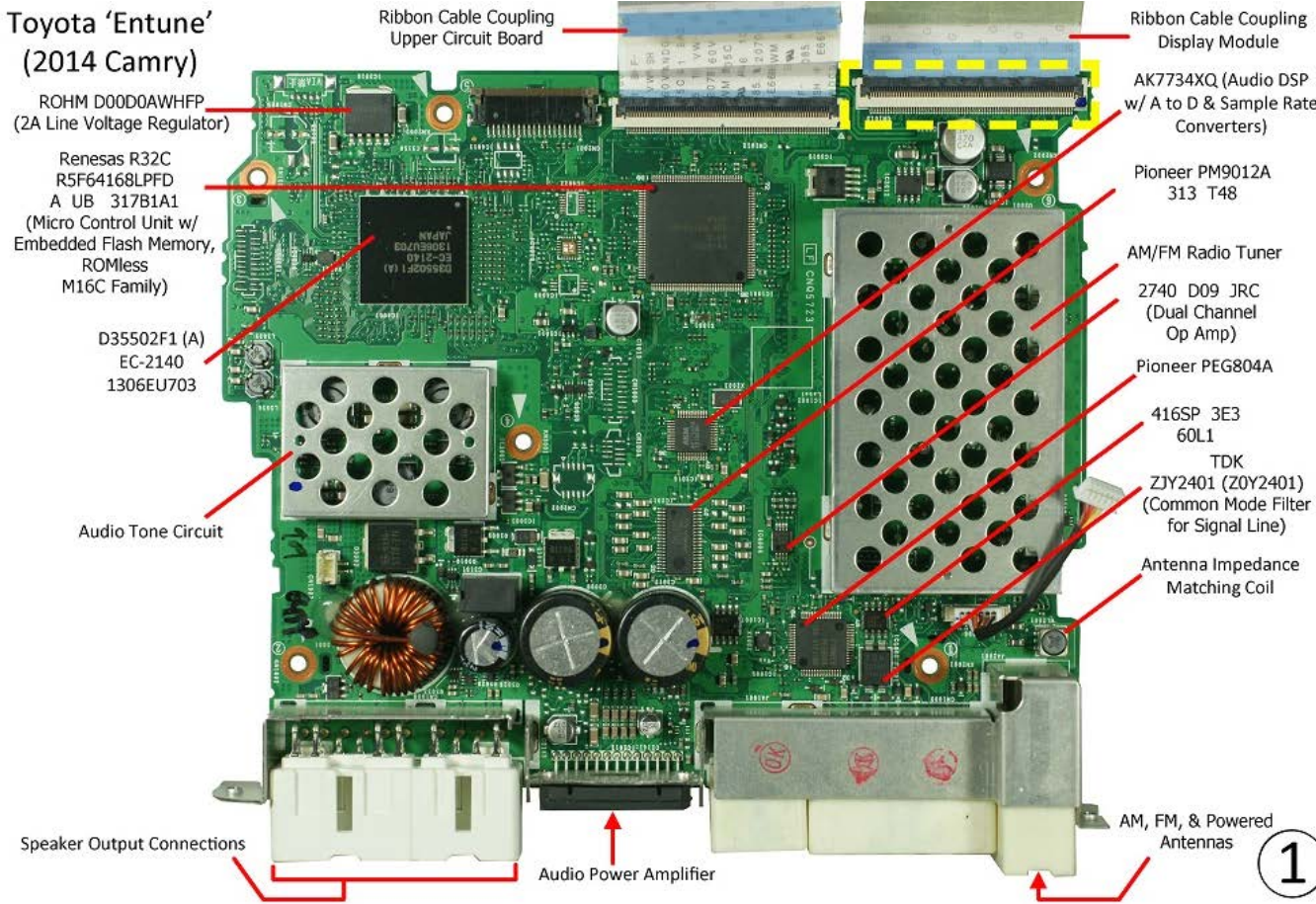
³ Blitzsafe has produced Ex. C, 2015 Tacoma Navigation Manual simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000012 – 293. All pin-cites are to manual pages.

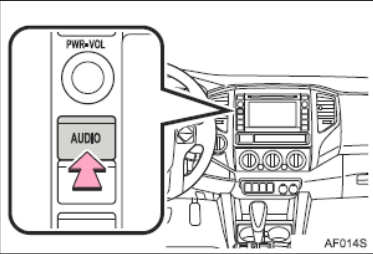







Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div> <p>■ About iPod</p> </div> <div>  </div> <div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. </div> <div> <p>■ iPod cover art</p> </div> <div> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>3 Interior and exterior features</p> </div> <div> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 271.⁴</p> </div>
<p>[1A] a first connector electrically connectable to</p>	<p>Each device integration system of accused Toyota automobiles includes a car stereo, including one or more car stereo components such as, e.g., DSPs, coils, tuner circuitry, car stereo software, virtual buttons, display unit, etc. The device integration system also includes an interface (including at least a Renesas microprocessor) for, among other things, channeling audio signals to the car stereo from an after-market audio device, such as an iPhone connected via a USB connector. The</p>

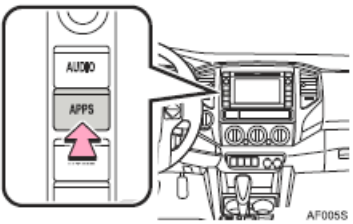

⁴ Blitzsafe has produced Ex. D, 2015 Tacoma Owner's Manual simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000294 - 883. All pin-cites are to manual pages.

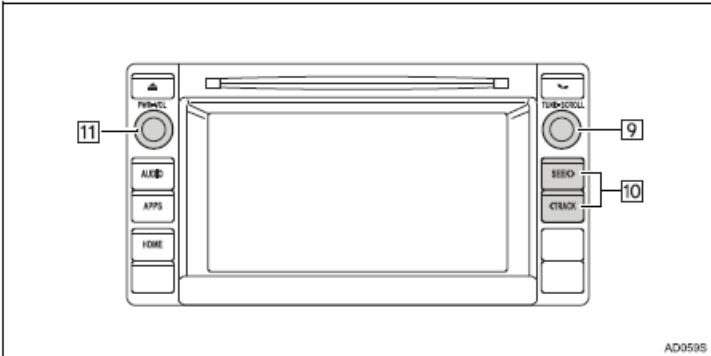
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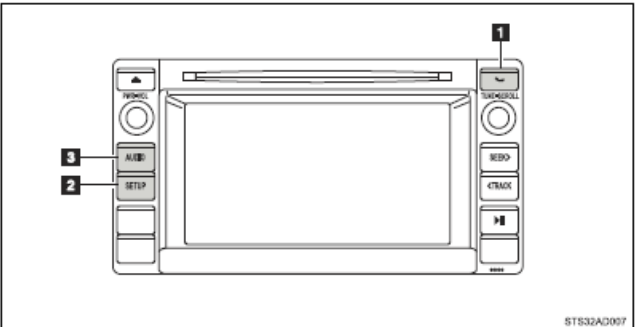

Claim	Support
<p>a car stereo;</p>	<p>device integration system includes “a first connector electrically connectable to a car stereo” because, as set forth below, the car stereo controls may be used to control the after-market audio device and because the car stereo receives information from the after-market audio device regardless of the particular configuration of the device integration system. The “first connector electrically connectable to a car stereo” may include an electrical connector such as a circuit board connector, soldered connector, wired connector or software/virtual connector that is connectable to the car stereo or any component thereof, including at least the connector set forth in the yellow dashed box below.</p>  <p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> ROHM D00D0AWHFP (2A Line Voltage Regulator) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) D35502F1 (A) EC-2140 1306EU703 Audio Tone Circuit Speaker Output Connections Audio Power Amplifier AM, FM, & Powered Antennas Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Pioneer PM9012A 313 T48 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil <p>1</p>

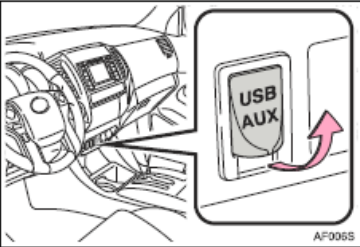
Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the "AUDIO" button.</p>  <p>2 Select "Source" on the audio screen or press "AUDIO" button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select  or  to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select "Reorder".</p>  <p>2 Select the desired audio source then  or  to reorder.</p>  <p>3 Select "OK".</p> </div> </div>

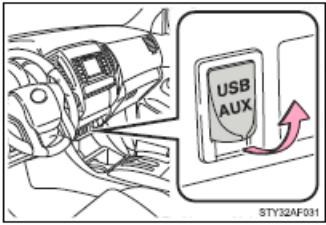
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #cccccc; padding: 5px; border: 1px solid black;"> <p>LISTENING TO INTERNET RADIO</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> </div> <div style="margin-top: 10px;"> <p>1 Press the “APPS” button.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  </div> <div style="margin-top: 10px;"> <p>2 Select the internet radio application.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. </div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin-top: 10px;"> <p>INFORMATION</p> </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331. </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> </div>

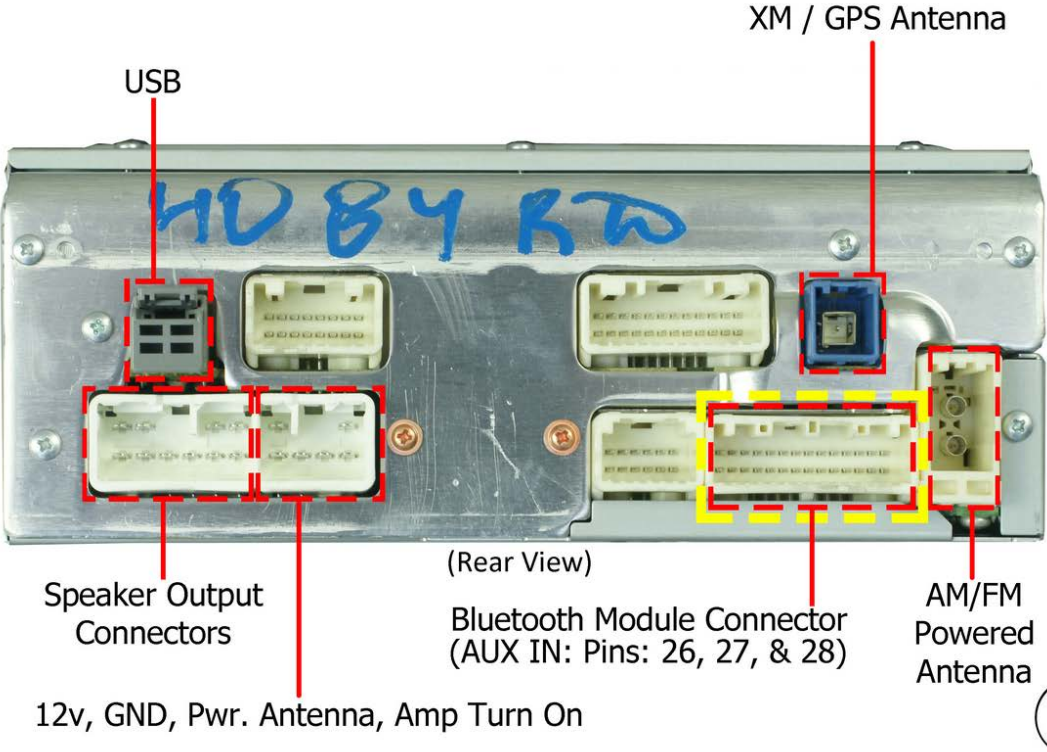
Claim	Support																								
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td> Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>9</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td>10</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</i></p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	10	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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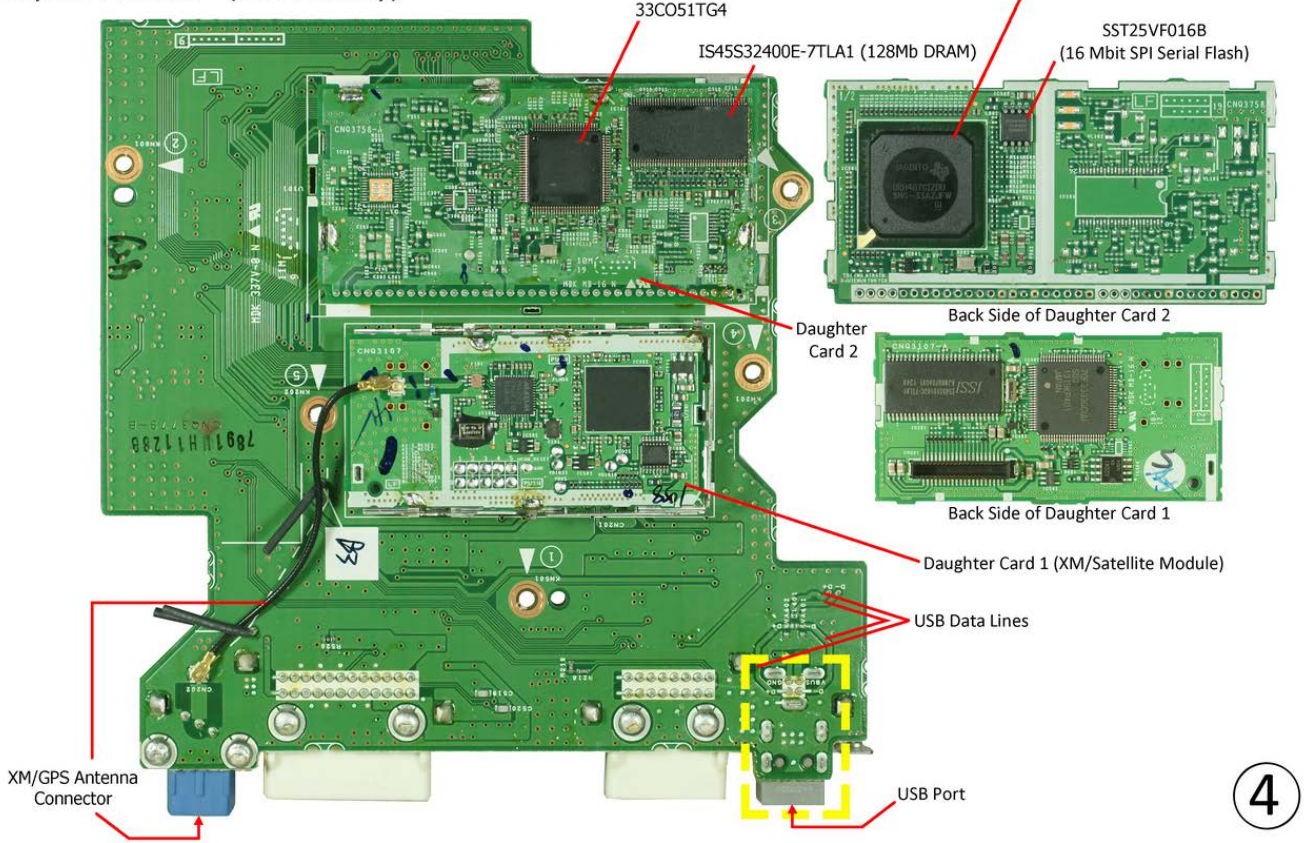
Claim	Support
	<p>3-2. Using the multimedia system Entune Audio*</p> <p>Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.</p> <p>Multimedia system operation buttons</p> <div>  <p>5TSS32AD007</p> </div> <p> 1  button Press this button to access the Bluetooth® hands-free system. (→P. 305) 2 “SETUP” button Press this button to customize the function settings. (→P. 250) 3 “AUDIO” button Display the “Select Audio Source” screen or audio control screen. (→P. 257) </p> <p>See, e.g., Ex. D (2015 Tacoma Owner’s Manual) at 245.</p>


Claim	Support
	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>

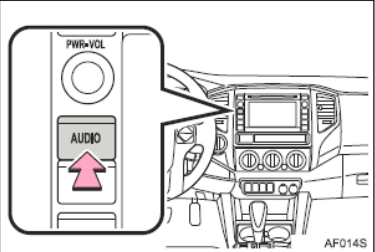







Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device.</p> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player.</p> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffccff; border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <p>■ While driving</p> <p>Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. D (2015 Tacoma Manual) at 249.</p> </div>

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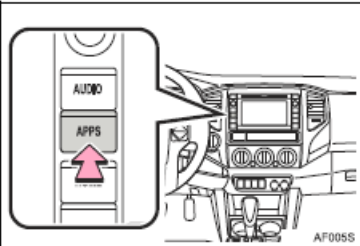

Claim	Support
<p>[1B] a second connector electrically connectable to an after-market audio device external to the car stereo;</p>	<p>Each device integration system of accused Toyota automobiles includes “a second connector electrically connectable to an after-market audio device external to the car stereo” because, as set forth below, the after-market audio device receives commands for controlling its operation from the car stereo and because the car stereo receives information from the after-market audio device regardless of the particular configuration of the device integration system. The second connector is a USB connector in the device integration system that is connectable to a USB port in the accused Toyota automobiles for mating via a cable with an after-market audio device external to the car stereo, such as an iPhone or other smart device playing MP3 files or streaming radio and other audio content from the Internet or from applications, such as Google Play Music, Spotify and Pandora apps.</p> <p style="text-align: center;">Toyota ‘Entune’ - (2014 Camry)</p>  <p style="text-align: center;">(Rear View)</p> <p style="text-align: center;">12v, GND, Pwr. Antenna, Amp Turn On</p> <p style="text-align: right; font-size: 2em; border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">5</p>

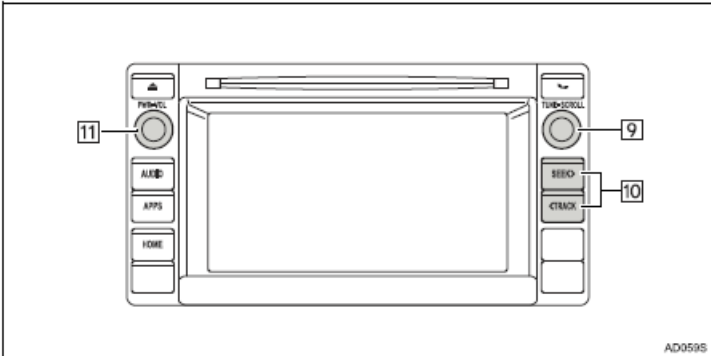
Claim	Support
	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>Back Side of Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>

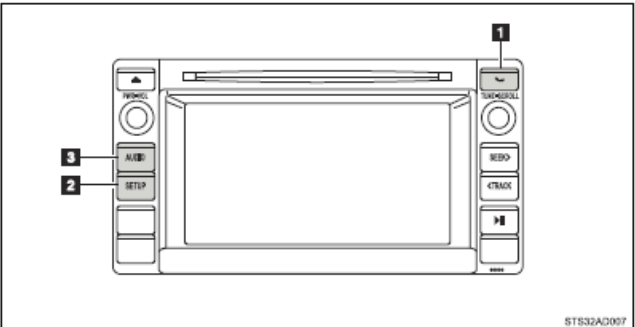

Claim	Support
	 <p>USB/iPod[®]</p> <p>Hook up via a USB data cable¹² to the USB port to gain full iPod[®]¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB¹² flash drive.</p> <p>See, e.g., Ex. A (Entune App Suite Brochure) at 4.</p>

Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the "AUDIO" button.</p>  <p>2 Select "Source" on the audio screen or press "AUDIO" button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select  or  to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select "Reorder".</p>  <p>2 Select the desired audio source then  or  to reorder.</p>  <p>3 Select "OK".</p> </div> </div>

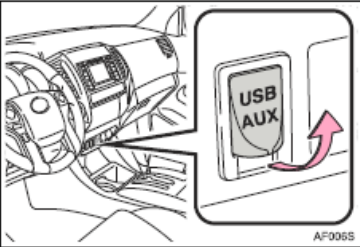
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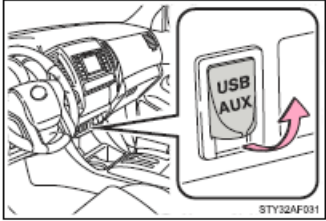
Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>LISTENING TO INTERNET RADIO</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> </div> <div style="margin-top: 10px;"> <p>1 Press the “APPS” button.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <p>2 Select the internet radio application.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> </div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin-top: 10px;"> <p>INFORMATION</p> </div> <div style="margin-top: 5px;"> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331. </div>

Claim	Support																								
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td> Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>9</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td>10</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</i></p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	10	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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Claim	Support
	<p>3-2. Using the multimedia system Entune Audio*</p> <p>Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.</p> <p>Multimedia system operation buttons</p> <div>  <p>5TSS32AD007</p> </div> <p> 1  button Press this button to access the Bluetooth® hands-free system. (→P. 305) 2 “SETUP” button Press this button to customize the function settings. (→P. 250) 3 “AUDIO” button Display the “Select Audio Source” screen or audio control screen. (→P. 257) </p> <p>See, e.g., Ex. D (2015 Tacoma Owner’s Manual) at 245.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

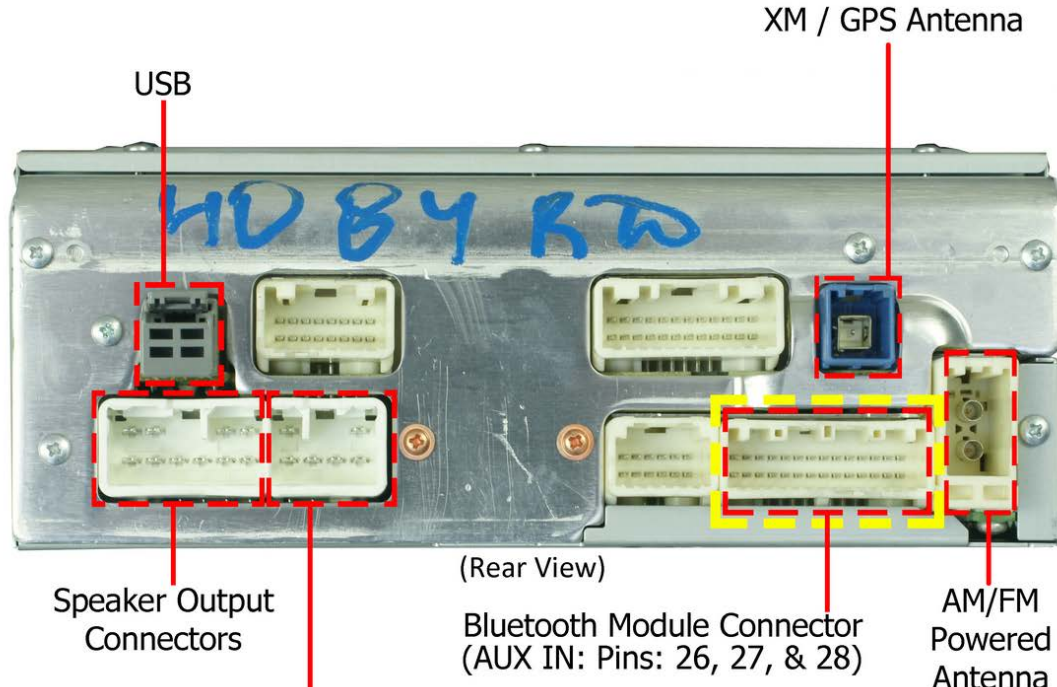
Claim	Support
	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device.</p> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player.</p> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffccff; border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>■ While driving</p> <p>Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 10px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

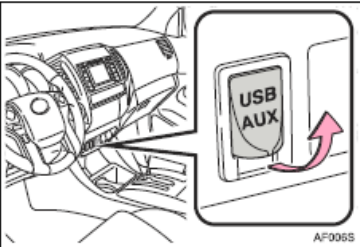
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

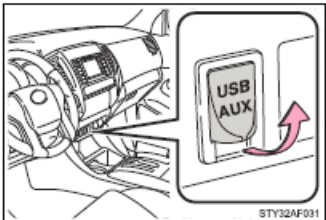
Claim	Support
	<p>iPod®/USB 2.0/AUX</p> <p>Connect an iPod®</p> <p>Connect your iPod®¹¹ or USB ¹² device and play your music through your multimedia system.</p> <p>Connecting an iPod® ¹¹ using the USB port enables users to enjoy music or other iPod® ¹¹ content via the vehicle's speakers.</p> <p><i>Note: "Press" refers to hard buttons on the sides of the screen; "Touch" refers to the display screen (phone or multimedia system).</i></p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect an iPod® ¹¹ 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. The iPod® ¹¹ will begin playing and song information will be displayed 4. Touch Source to select an alternate source <p>Play an iPod®</p> <p>The title of the album and song you are currently listening to will be displayed, as well as the album art if available</p> <ol style="list-style-type: none"> 1. Touch II to pause the track 2. Touch > to resume playing the track 3. Press and hold the Λ SEEK / ∇ TRACK button to fast-forward or rewind. When you release the button, the player will start playing from that position. 4. Press and release the Λ SEEK / ∇ TRACK button to advance to the next track or go back to the previous track <p>Connect a USB Device</p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect a USB memory device 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. Plug in memory device 4. Music will begin playing <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 1.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>[1C] a third connector electrically connectable to one or more auxiliary input sources external to the car stereo and the after-market audio device;</p>	<p>Each device integration system of accused Toyota automobiles includes “a third connector electrically connectable to one or more auxiliary input sources external to the car stereo and the after-market audio device.” Specifically, accused Toyota automobiles are provided with an auxiliary input jack at one or more locations in the automobile, such as in the center console. The auxiliary input jack is connected via the third connector, which is believed to be included in one of the connectors within the yellow dashed box below, to the device integration system and permits audio from a device connected to the auxiliary input jack to be played through the automobile’s speakers.</p> <p style="text-align: center;">Toyota ‘Entune’ - (2014 Camry)</p>  <p style="text-align: center;">(Rear View)</p> <p style="text-align: center;">Bluetooth Module Connector (AUX IN: Pins: 26, 27, & 28)</p> <p style="text-align: center;">AM/FM Powered Antenna</p> <p style="text-align: center;">12v, GND, Pwr. Antenna, Amp Turn On</p> <p style="text-align: right; font-size: 2em; border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">5</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Connect an Auxiliary Device</p> <ol style="list-style-type: none">1. Open the cover of the USB/AUX port and connect an auxiliary cable2. Music will play automatically when connected (Note: Ensure the device connected is in Play Mode)3. Or, touch Source or press Audio button4. Touch AUX on the screen5. Only the volume can be adjusted using the audio system controls. The remaining controls need to be operated on the portable audio device. <p><i>See, e.g., Ex. B</i> (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 2.</p> <div><p>USB/AUX PORT</p></div> <ol style="list-style-type: none">1 Open the cover and connect a device.  <ul style="list-style-type: none">● Turn on the power of the device if it is not turned on. <p><i>See, e.g., Ex. C</i> (2015 Tacoma Navigation Manual) at 74.</p>

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-left: 20px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-left: 20px; margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 40px;"> <p>Open the cover and connect the USB memory device.</p> </div> <div style="margin-left: 40px;"> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-left: 20px; margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 40px;"> <p>Open the cover and connect the portable audio player.</p> </div> <div style="margin-left: 40px;"> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffccff; border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="margin-left: 20px;"> <p>■ While driving</p> </div> <div style="margin-left: 40px;"> <p>Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

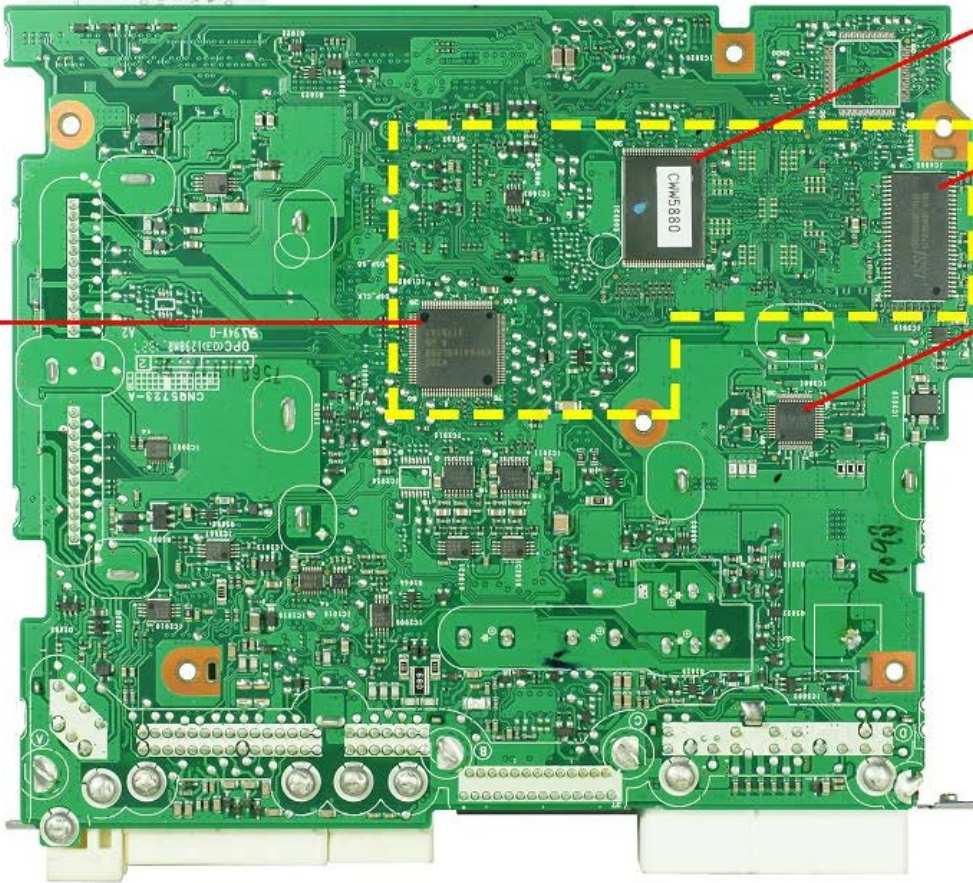
Claim	Support
	<div style="background-color: #444; color: white; padding: 5px;"> <p>3-2. Using the multimedia system Using the AUX port</p> </div> <div style="background-color: #eee; padding: 5px; margin-top: 10px;"> <p>To use the AUX port, connect a portable player, then select "AUX" on the "Select Audio Source" screen.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting a portable audio player</p> </div> <div style="margin-top: 5px;"> <p>→P. 249</p> </div> <hr style="border: 0.5px solid black; margin: 10px 0;"/> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ■ Operating portable audio players connected to the multimedia system The volume can be adjusted using the vehicle's audio controls. All other adjustments must be made on the portable audio player itself. ■ When using a portable audio player connected to the power outlet Noise may occur during playback. Use the power source of the portable audio player. </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <div style="background-color: #f0f0f0; padding: 2px;">⚠ CAUTION</div> <ul style="list-style-type: none"> ■ While driving Do not connect a portable audio player or operate the device controls. </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-top: 10px;"> <p>3 Interior and exterior features</p> </div> <p style="margin-top: 20px;"><i>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 281.</i></p>
<p>[1D] an interface connected between said first and second electrical connectors for channeling</p>	<p>Each device integration system of the accused Toyota automobiles includes, among other things, an interface for connecting the car stereo to external audio devices via a USB connector. The interface contained within the device integration system (which interface comprises at least the software and hardware shown in the yellow dashed boxes below, including at least a Renesas microcontroller) is coupled to the USB connector (i.e., the second connector) as well as to at least one car stereo component via the first connector, such as via a circuit board connector, soldered connector, wired connector or software/virtual connector. The interface channels audio signals to the car stereo from the after-market audio device, as one of the primary functions of the infotainment system within accused Toyota automobiles is to permit audio stored on or streamed from an after-market audio device to play via the car stereo's speakers.</p>

Claim	Support
<p>audio signals to the car stereo from the after-market audio device,</p>	<p style="text-align: center;">Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p style="text-align: right;">4</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module ROHM D00D0AWHFP (2A Line Voltage Regulator) AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) Pioneer PM9012A 313 T48 D35502F1 (A) EC-2140 1306EU703 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Audio Tone Circuit Antenna Impedance Matching Coil Speaker Output Connections Audio Power Amplifier AM, FM, & Powered Antennas <p>1</p>

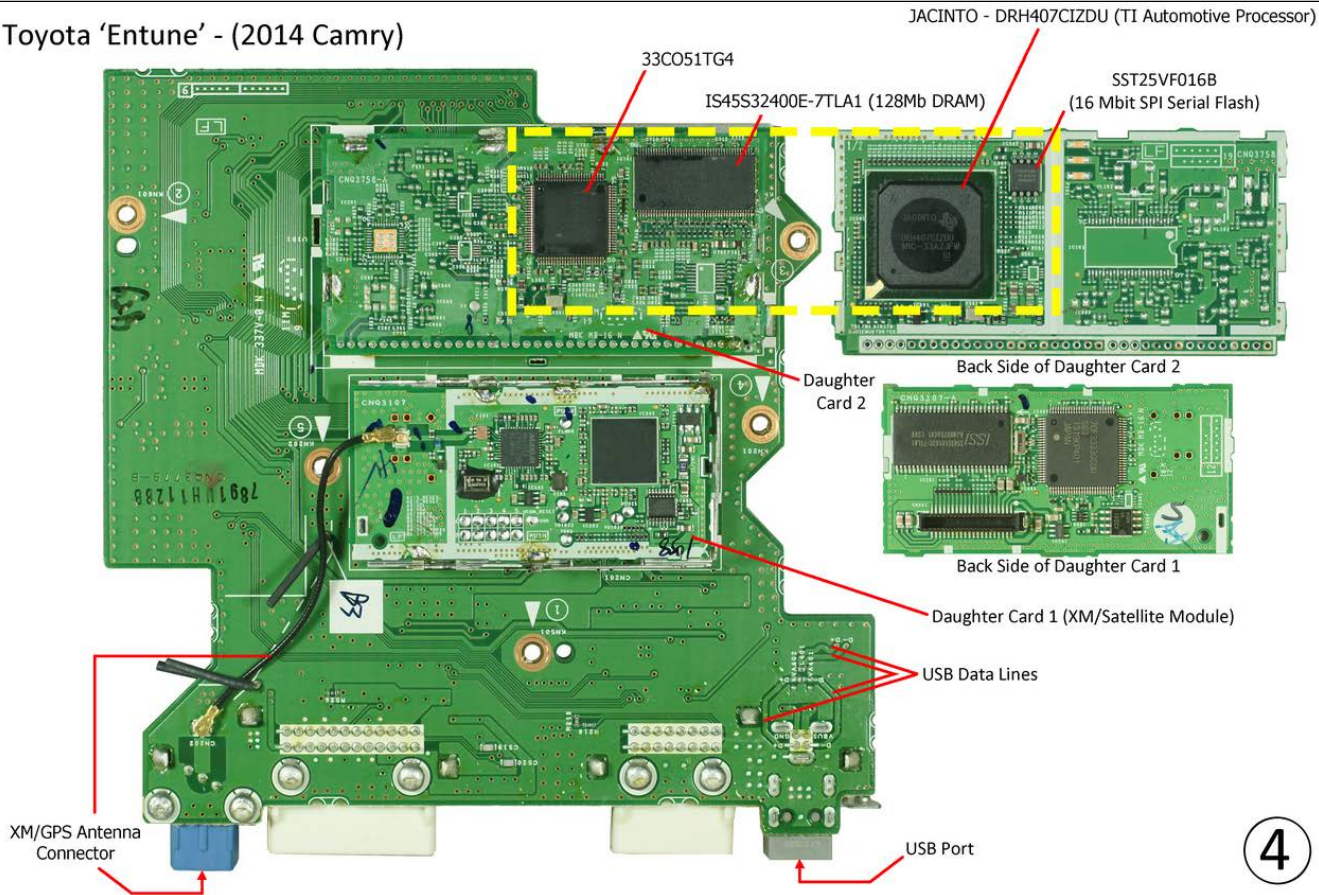
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

Claim	Support
	<div></div> <p>USB/iPod[®]</p> <p>Hook up via a USB data cable ¹² to the USB port to gain full iPod[®] ¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB ¹² flash drive.</p> <p>See, e.g., Ex. A (www.toyota.com/entune) at 4.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

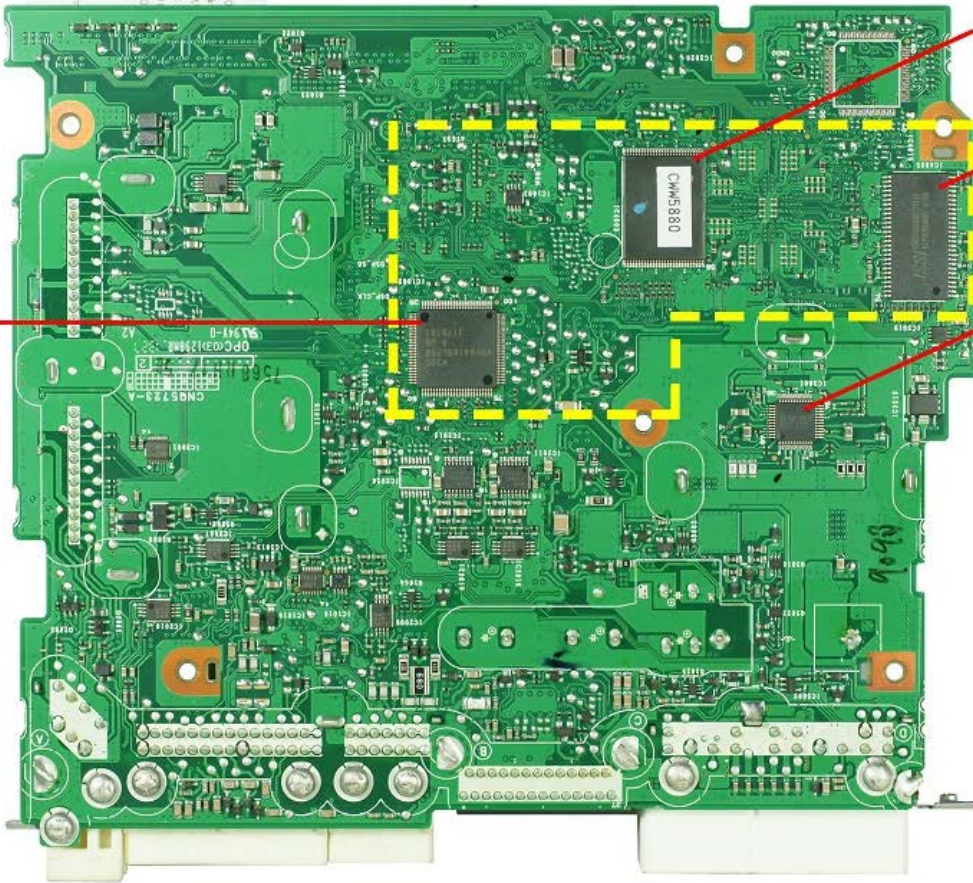
Claim	Support
<p>[1E] said interface including a microcontroller in electrical communication with said first and second electrical connectors, said microcontroller pre-programmed to execute:</p>	<p>The interface of each device integration system of the accused Toyota automobiles includes one or more microcontrollers (including at least a Renesas microcontroller) in electrical communication with the first and second electrical connectors for controlling various operations of the infotainment system, such as the radio, display, and interface operations. At least the Renesas microcontroller of the interface (and potentially other microcontrollers on one or more circuit boards of the device integration system, some of which are shown in the yellow dashed box below) executes code to perform various interface functions and is, thus, “pre-programmed” to perform these functions. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the interface (such as within the Renesas microcontroller itself).</p>

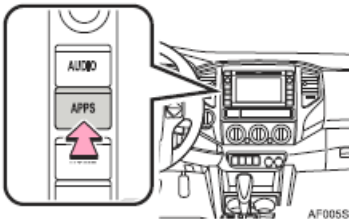
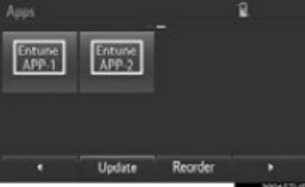
Claim	Support
	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>Support</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>

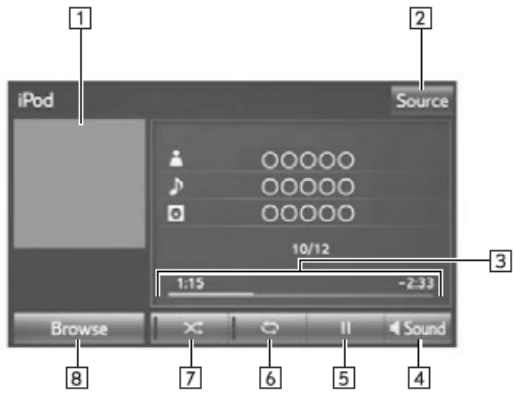
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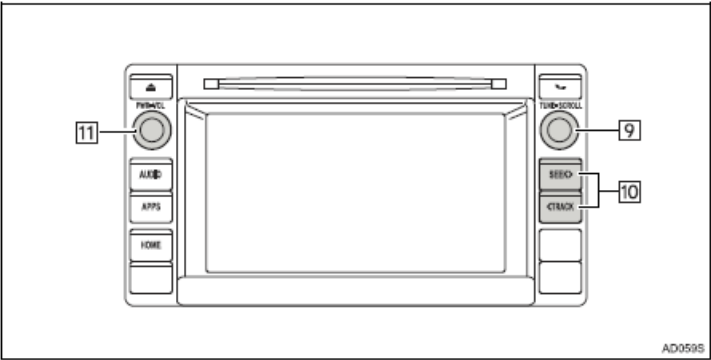
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module ROHM D00D0AWHFP (2A Line Voltage Regulator) AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) Pioneer PM9012A 313 T48 D35502F1 (A) EC-2140 1306EU703 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Audio Tone Circuit Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil Speaker Output Connections Audio Power Amplifier AM, FM, & Powered Antennas <p>1</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>②</p> <p>See, e.g., video at https://www.youtube.com/watch?v=KKcFqPYpl9M.</p>

Claim	Support
	<p>2. RADIO OPERATION</p> <p>3. INTERNET RADIO*</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>LISTENING TO INTERNET RADIO</p> </div> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> <p>1 Press the “APPS” button.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  <p>AF005S</p> </div> <p>2 Select the internet radio application.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin: 10px 0;"> <p>INFORMATION</p> </div> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331.

Claim	Support
	<p>3. MEDIA OPERATION</p> <p>3. iPod</p> <p>OVERVIEW</p> <div style="border: 1px solid black; padding: 5px;"> <p>The iPod operation screen can be reached by the following methods:</p> <ul style="list-style-type: none"> ▶ Connect an iPod (→P.74) ▶ Select "iPod" on the "Select Audio Source" screen. (→P.73) <p>When the iPod connected to the system includes iPod video, the system can only output the sound by selecting the browse screen.</p> </div> <p>CONTROL SCREEN</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>The screenshot shows a control interface for an iPod. At the top left is the label 'iPod' (callout 1) and at the top right is 'Source' (callout 2). The main display area shows a progress bar with '10/12' in the center and '1:15' on the left and '-2:33' on the right (callout 3). Below the progress bar is a row of five buttons: 'Browse' (callout 8), a skip forward button (callout 7), a refresh button (callout 6), a play/pause button (callout 5), and a volume/sound button (callout 4).</p> </div>

Claim	Support																								
	<p style="text-align: center;">CONTROL PANEL</p>  <p style="text-align: right; margin-right: 50px;">3 AUDIO SYSTEM</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Shows progress</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to play/pause.</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Select to set random playback.</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td style="text-align: center;">9</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td style="text-align: center;">10</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td style="text-align: center;">11</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> <p style="margin-top: 20px;">See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 100-01.</p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	10	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

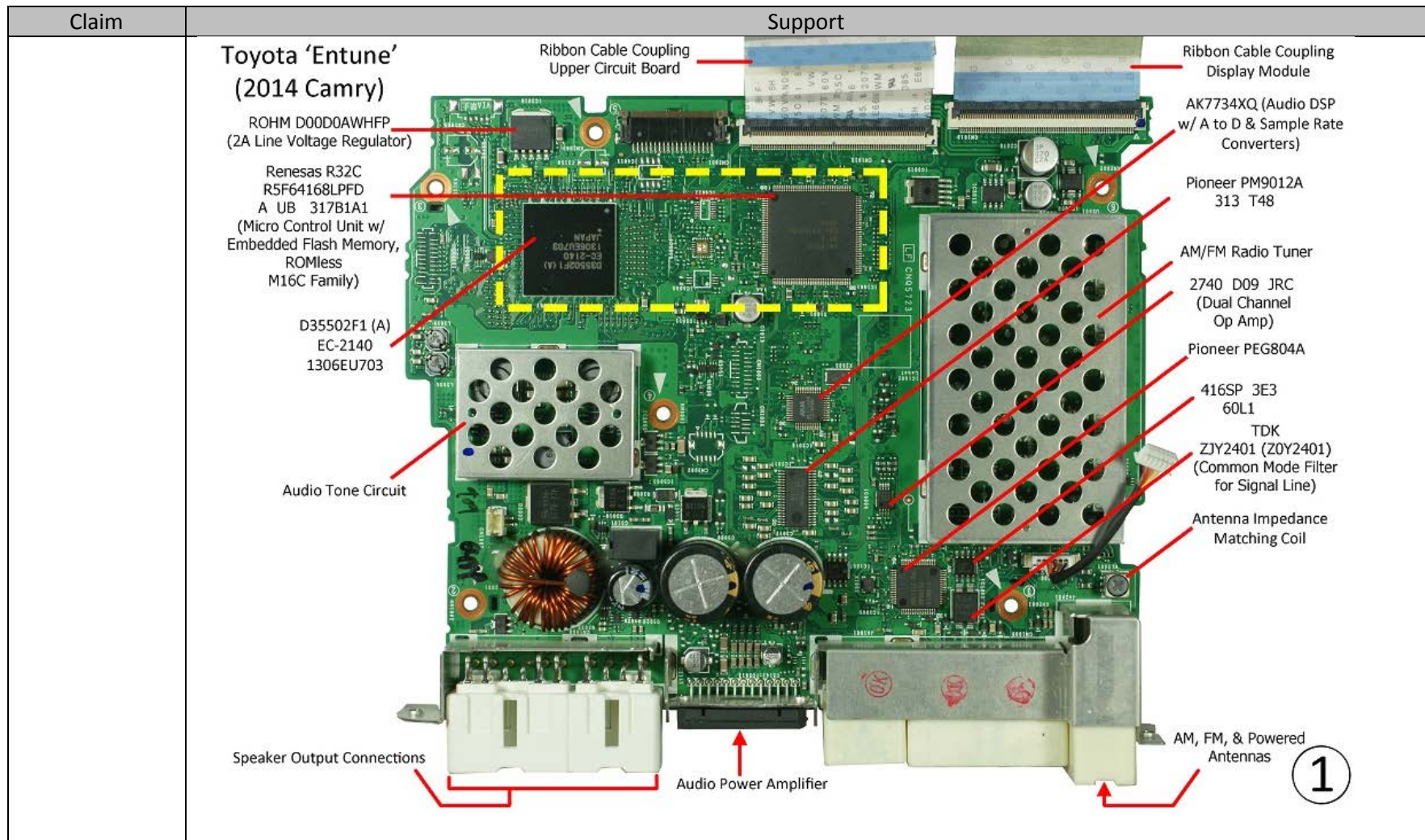
Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>■ About iPod</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin: 10px 0;"> <p>Made for  iPod  iPhone</p> </div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. <p style="text-align: right; margin-top: 20px;">3 Interior and exterior features</p> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 271.</p> </div>
<p>[1F] a first pre-programmed code portion for remotely controlling the after-market audio device</p>	<p>The interface of each device integration system of the accused Toyota automobiles is pre-programmed to execute "a first pre-programmed code portion for remotely controlling the after-market audio device using the car stereo by receiving a control command from the car stereo through said first connector in a format incompatible with the after-market audio device, processing the received control command into a formatted command compatible with the after-market audio device, and transmitting the formatted command to the after-market audio device through said second connector for execution by the after-market audio device." More specifically, once connected, commands are received from the car stereo and channeled through the first connector to the interface (including at least the Renesas microcontroller), where they are processed and</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

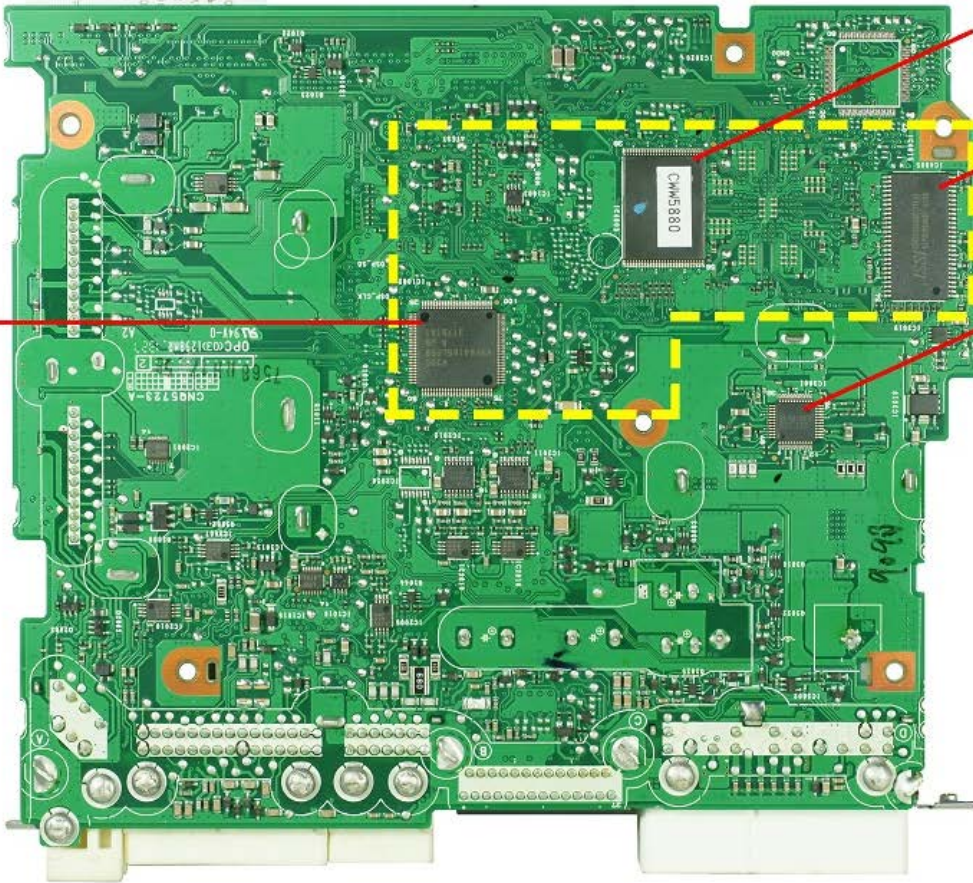
Claim	Support
using the car stereo by receiving a control command from the car stereo through said first connector in a format incompatible with the after-market audio device, processing the received control command into a formatted command compatible with the after-market audio device, and transmitting the formatted command to the after-market audio device through said second connector for execution by the after-	<p>converted using pre-programmed software from a format understandable and compatible with the car stereo and associated Toyota protocols (i.e., a format incompatible with the after-market audio device) into formatted commands that are compatible with the after-market audio device (i.e., converted into USB and device-specific protocols understandable to the after-market audio device). These formatted commands are then transmitted to the after-market audio device via the USB connector (i.e., the second connector). The formatted commands are then executed by the after-market audio device. At least the Renesas microcontroller of the interface (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the interface (such as within the Renesas microcontroller itself).</p> <p>For example, Entune system software updates may be downloaded from the Internet. See video at https://www.youtube.com/watch?v=KKcFqPYpl9M).</p>

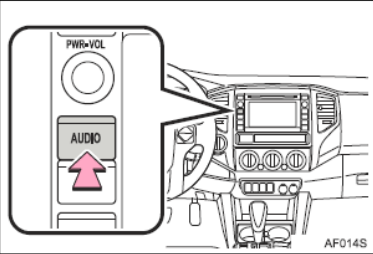



Claim	Support
<p>market audio device;</p>	<p>Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33CO51TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>USB Port</p> <p>XM/GPS Antenna Connector</p> <p>4</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

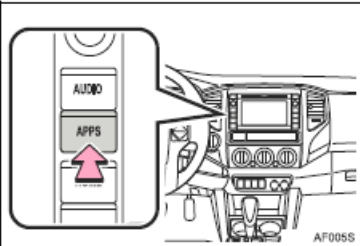



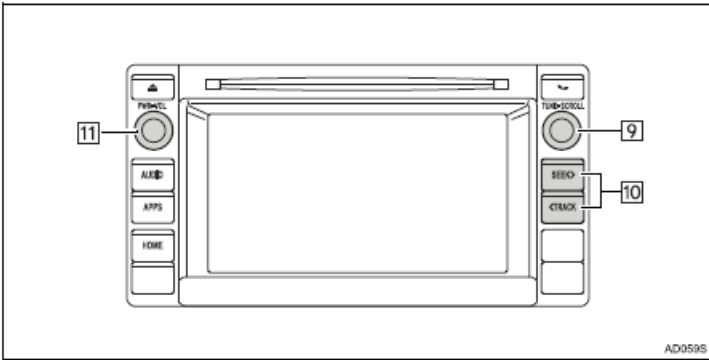
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

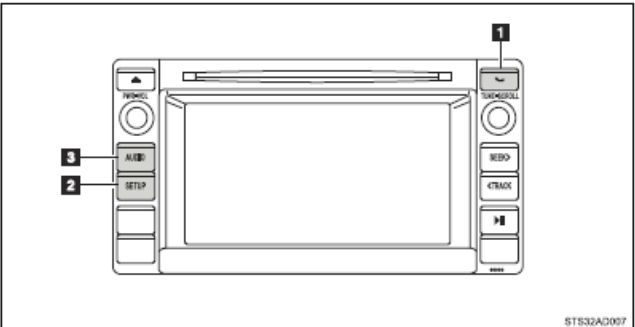

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

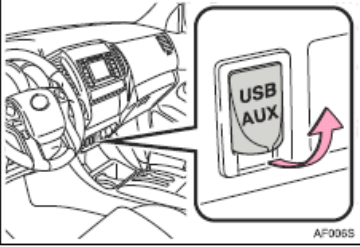
Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the “AUDIO” button.</p>  <p>2 Select “Source” on the audio screen or press “AUDIO” button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select ◀ or ▶ to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select “Reorder”.</p>  <p>2 Select the desired audio source then ◀ or ▶ to reorder.</p>  <p>3 Select “OK”.</p> </div> </div>

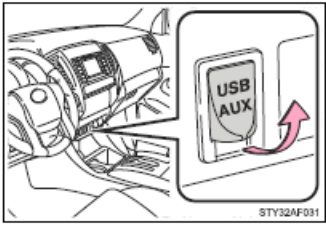
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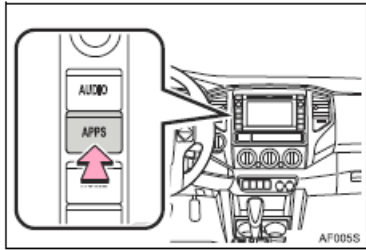

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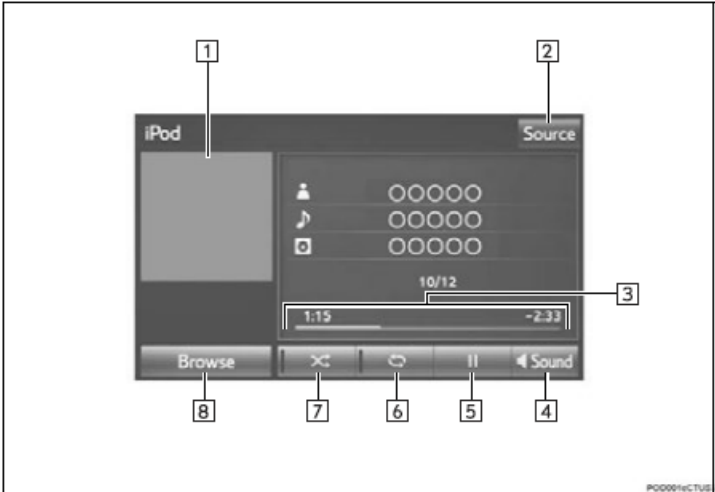
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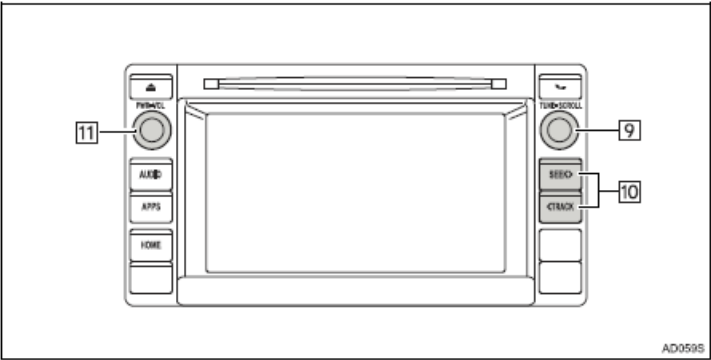
Claim	Support
	<p>3-2. Using the multimedia system Entune Audio*</p> <p>Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.</p> <p>Multimedia system operation buttons</p> <div>  <p>5TSS32AD007</p> </div> <p> 1  button Press this button to access the Bluetooth® hands-free system. (→P. 305) 2 "SETUP" button Press this button to customize the function settings. (→P. 250) 3 "AUDIO" button Display the "Select Audio Source" screen or audio control screen. (→P. 257) </p> <p><i>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 245.</i></p>

Claim	Support
	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>


Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device.</p> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player.</p> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffcccc; border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <p>■ While driving</p> <p>Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>2. RADIO OPERATION 3. INTERNET RADIO*</p> </div> <div style="background-color: #cccccc; padding: 5px; margin-top: 10px;"> <p>LISTENING TO INTERNET RADIO</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> </div> <div style="margin-top: 10px;"> <p>1 Press the “APPS” button.</p> </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="margin-top: 10px;"> <p>2 Select the internet radio application.</p> </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> </div> <div style="margin-top: 20px;"> <p>INFORMATION</p> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331. </div>

Claim	Support
	<p>3. MEDIA OPERATION</p> <p>3. iPod</p> <p>OVERVIEW</p> <div><p>The iPod operation screen can be reached by the following methods:</p><ul style="list-style-type: none">▶ Connect an iPod (→P.74)▶ Select "iPod" on the "Select Audio Source" screen. (→P.73)<p>When the iPod connected to the system includes iPod video, the system can only output the sound by selecting the browse screen.</p></div> <p>CONTROL SCREEN</p> <div><p>The screenshot shows the iPod control interface. At the top left is the 'iPod' label (1) and at the top right is the 'Source' label (2). The main display area shows a progress bar with '10/12' in the center and '1:15' on the left and '-2:33' on the right (3). Below the progress bar is a row of five buttons: 'Browse' (8), a skip button (7), a play/pause button (6), a stop button (5), and a 'Sound' button (4). The 'iPod' label (1) is connected to a large grey area on the left side of the screen. The 'Source' label (2) is connected to the top right corner. The 'Browse' button (8) is connected to the bottom left corner. The skip button (7) is connected to the bottom left corner. The play/pause button (6) is connected to the bottom center. The stop button (5) is connected to the bottom center. The 'Sound' button (4) is connected to the bottom right corner. The progress bar (3) is connected to the center of the screen.</p></div>


Claim	Support																								
	<p style="text-align: center;">CONTROL PANEL</p>  <p style="text-align: right; margin-right: 50px;">3 AUDIO SYSTEM</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 10%;">No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td> <ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Shows progress</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to play/pause.</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Select to set random playback.</td> </tr> <tr> <td style="text-align: center;">8</td> <td> Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">9</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td style="text-align: center;">10</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td style="text-align: center;">11</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p style="margin-top: 20px;">See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 100-01.</p>	No.	Function	1	<ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	10	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
No.	Function																								
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Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

Claim	Support
	<div> <p>■ About iPod</p> </div> <div>  </div> <div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. </div> <div> <p>■ iPod cover art</p> </div> <div> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. </div> <div> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 271.</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>3 Interior and exterior features</p> </div>

Claim	Support
	 <p>USB/iPod[®]</p> <p>Hook up via a USB data cable ¹² to the USB port to gain full iPod[®] ¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB ¹² flash drive.</p> <p>See, e.g., Ex. A (www.toyota.com/entune) at 4.</p>

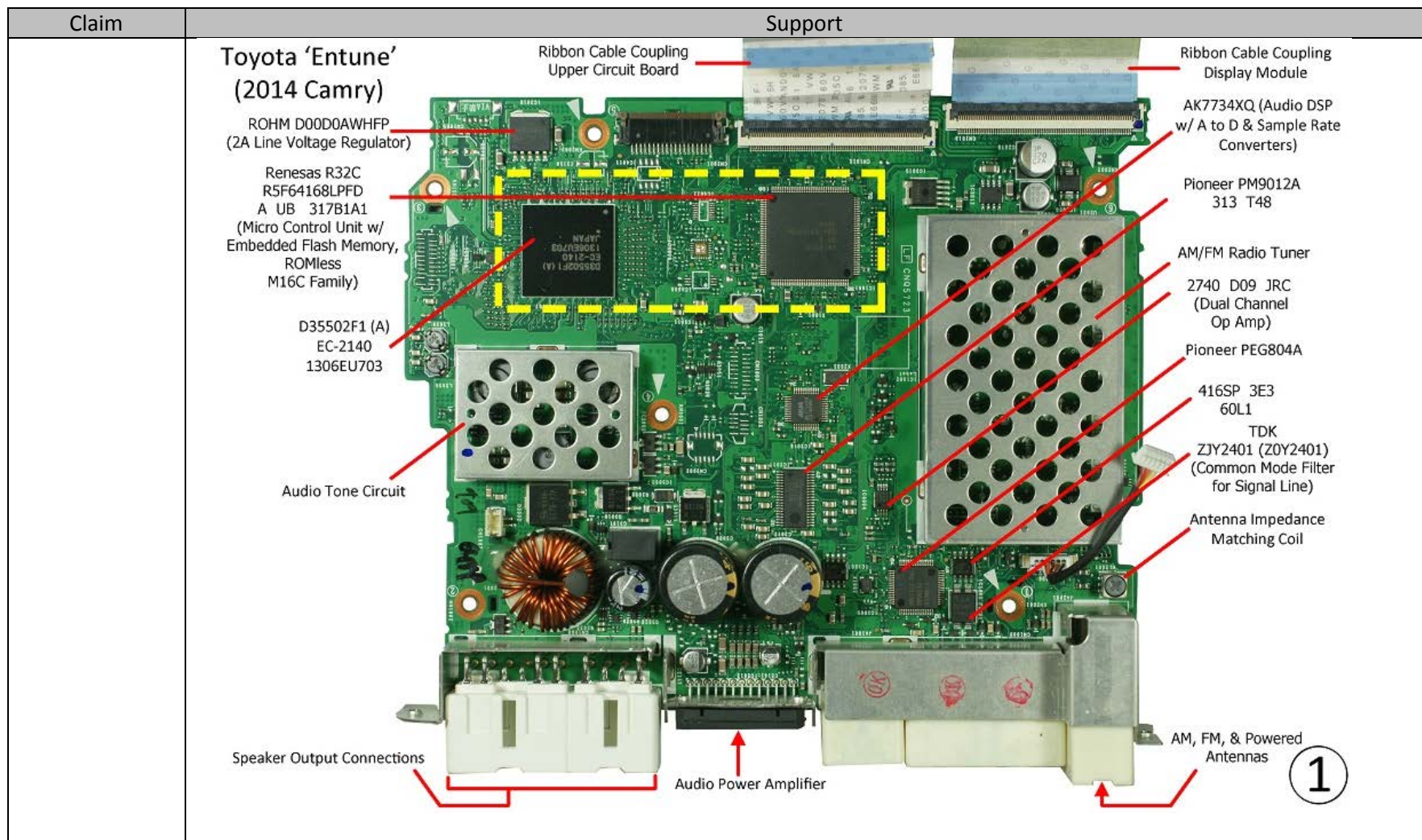
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Play an iPod®</p> <p>The title of the album and song you are currently listening to will be displayed, as well as the album art if available</p> <ol style="list-style-type: none"> 1. Touch II to pause the track 2. Touch > to resume playing the track 3. Press and hold the ^ SEEK / v TRACK button to fast-forward or rewind. When you release the button, the player will start playing from that position. 4. Press and release the ^ SEEK / v TRACK button to advance to the next track or go back to the previous track <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 1.</p>
<p>[1G] a second pre-programmed code portion for receiving data from the after-market audio device through said second connector in a format incompatible with the car stereo, processing the received data into formatted data compatible</p>	<p>The interface of each device integration system of the accused Toyota automobiles is pre-programmed to execute “a second pre-programmed code portion for receiving data from the after-market audio device through said second connector in a format incompatible with the car stereo, processing the received data into formatted data compatible with the car stereo, and transmitting the formatted data to the car stereo through said first connector for display by the car stereo.” More specifically, in response to one or more formatted commands executed by the after-market audio device, the after-market audio device transmits data (such as audio, songs, album, track, cover art, genre and artist information) to the device integration system via the USB connector (i.e., the second connector). The data is then received by the interface of the device integration system (including at least the Renesas microcontroller), where the data is processed and converted using pre-programmed software from a format incompatible with the car stereo and understandable and compatible with the after-market audio device (i.e., USB and device-specific protocols understandable to the after-market audio device) into formatted data compatible with the car stereo (i.e., formatted data understandable and compatible with the device integration system and associated Toyota protocols). The formatted data is then transmitted by the interface (including at least the Renesas microcontroller) to the car stereo via the first connector for display by the car stereo. At least the Renesas microcontroller of the interface (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the interface (such as within the Renesas microcontroller itself).</p> <p>For example, that Entune system updates may be downloaded from the Internet. See video at https://www.youtube.com/watch?v=KKcFqPYpl9M).</p>

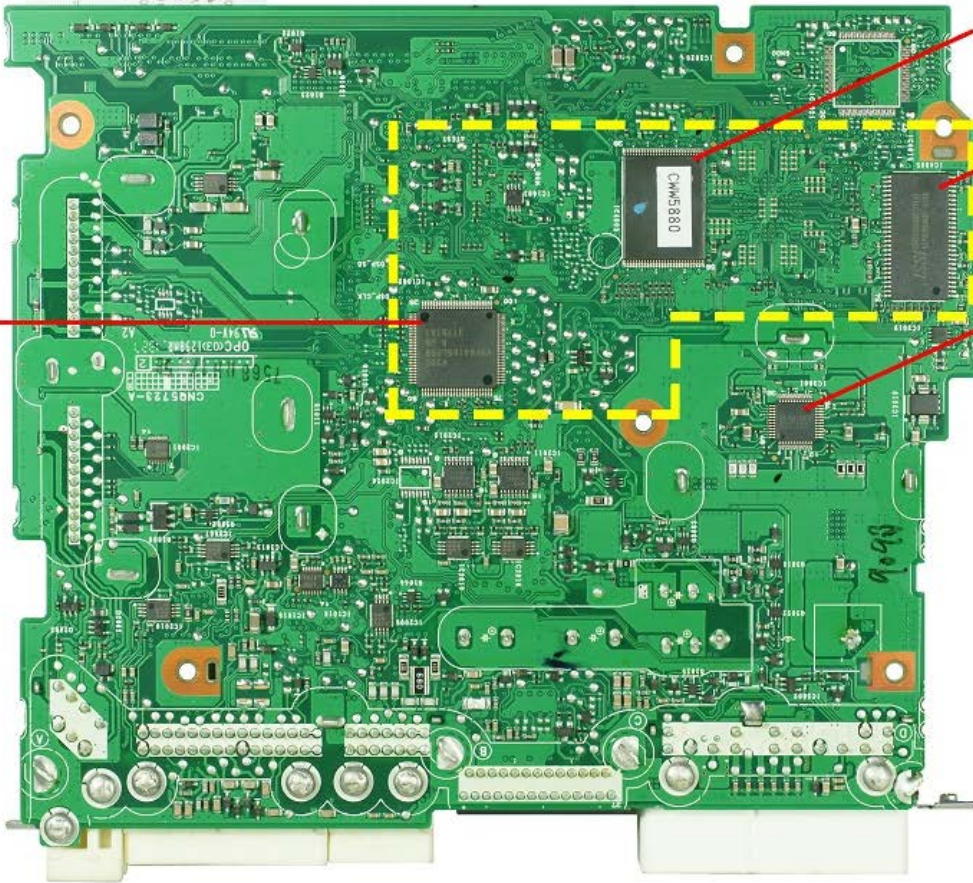
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>with the car stereo, and transmitting the formatted data to the car stereo through said first connector for display by the car stereo; and</p>	<p style="text-align: center;">Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33CO51TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p style="text-align: right;">④</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles




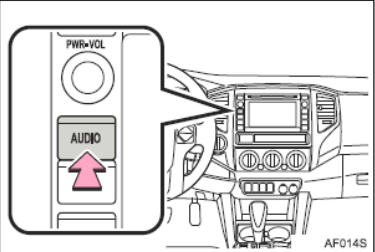



Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

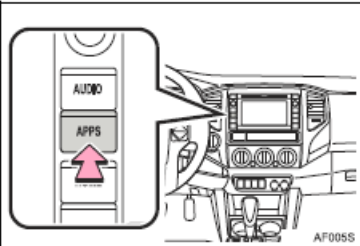

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

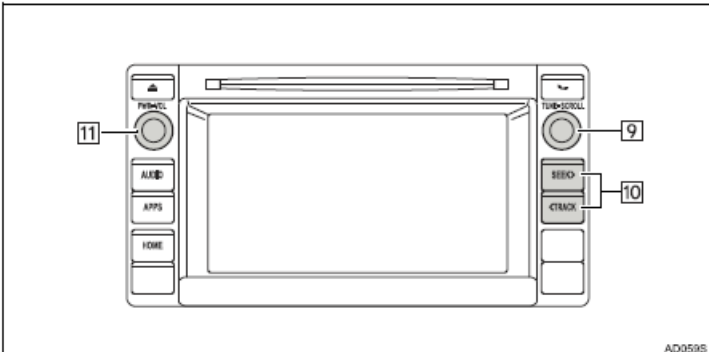
Claim	Support
	<p>PLAYING A USB AUDIO</p> <p>REPEATING</p> <p>The file/track or folder/album currently being listened to can be repeated.</p> <p>1 Select the repeat button to change on/off.</p> <p>RANDOM ORDER</p> <p>Files/tracks or folders/albums can be automatically and randomly selected.</p> <p>1 Select the random button to change on/off.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 99.</i></p>

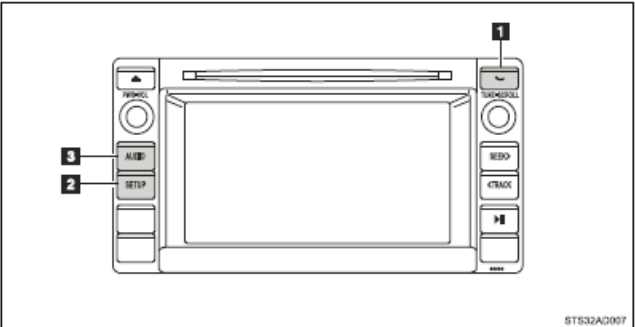

Claim	Support										
	<p>● Selecting a track/file/song from the track/file/song list</p> <p>STEP 1 Select "Browse" or cover art.</p> <p>STEP 2</p>  <p>Select the desired track/file/song.</p> <p>When an MP3/WMA/AAC disc or USB memory device is being used, the folder can be selected. When a Bluetooth® device or iPod is being used, the album can be selected.</p> <p>According to the audio device, the following is displayed.</p> <table border="1"> <thead> <tr> <th>Audio source</th> <th>List name</th> </tr> </thead> <tbody> <tr> <td>Audio CD</td> <td>Track</td> </tr> <tr> <td>MP3/WMA/AAC disc, USB</td> <td>Folder, File</td> </tr> <tr> <td>Bluetooth®</td> <td>Album, Track</td> </tr> <tr> <td>iPod</td> <td>Album, Song</td> </tr> </tbody> </table> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 259.</p>	Audio source	List name	Audio CD	Track	MP3/WMA/AAC disc, USB	Folder, File	Bluetooth®	Album, Track	iPod	Album, Song
Audio source	List name										
Audio CD	Track										
MP3/WMA/AAC disc, USB	Folder, File										
Bluetooth®	Album, Track										
iPod	Album, Song										

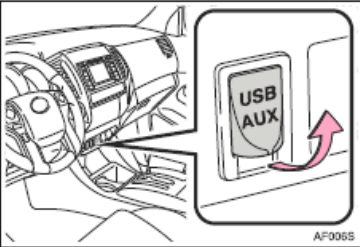
Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the "AUDIO" button.</p>  <p>2 Select "Source" on the audio screen or press "AUDIO" button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select ◀ or ▶ to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select "Reorder".</p>  <p>2 Select the desired audio source then ◀ or ▶ to reorder.</p>  <p>3 Select "OK".</p> </div> </div>

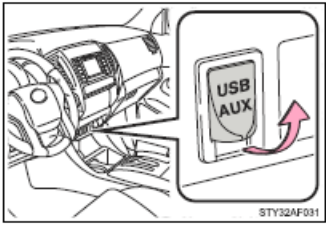
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

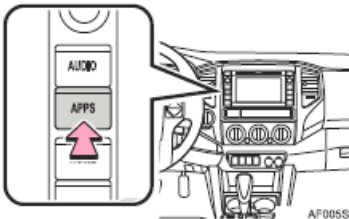
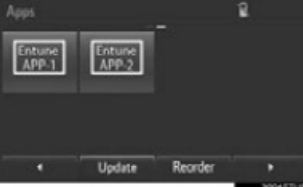
Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>LISTENING TO INTERNET RADIO</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> </div> <div style="margin-top: 10px;"> <p>1 Press the “APPS” button.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <p>2 Select the internet radio application.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> </div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin-top: 10px;"> <p>INFORMATION</p> </div> <div style="margin-top: 5px;"> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331. </div>

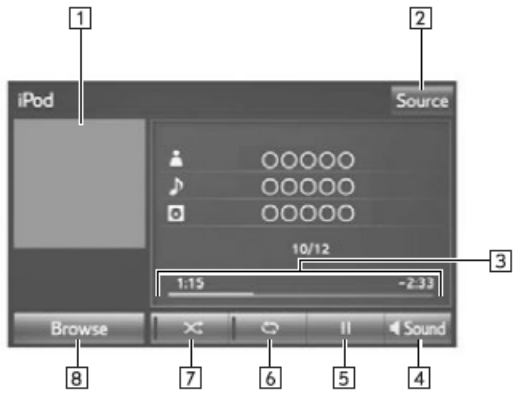
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	<p style="text-align: center;">CONTROL PANEL</p>  <p style="text-align: right; margin-right: 50px;">3 AUDIO SYSTEM</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Shows progress</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to play/pause.</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Select to set random playback.</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td style="text-align: center;">9</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td style="text-align: center;">10</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td style="text-align: center;">11</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	10	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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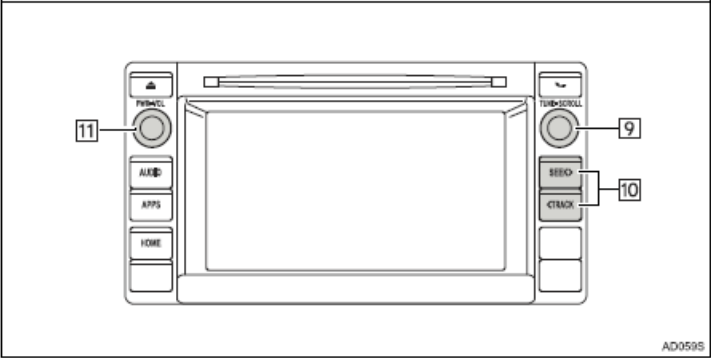
Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system Entune Audio*</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Multimedia system operation buttons</p> </div> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">  <p style="text-align: right; font-size: small;">ST532AD007</p> </div> <div style="margin-top: 10px;"> <p>1  button Press this button to access the Bluetooth® hands-free system. (→P. 305)</p> <p>2 "SETUP" button Press this button to customize the function settings. (→P. 250)</p> <p>3 "AUDIO" button Display the "Select Audio Source" screen or audio control screen. (→P. 257)</p> </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 245.</p> </div>

Claim	Support
	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>


Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable. Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device. Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player. Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffccff; border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 2px;"> <p>■ While driving Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 10px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

Claim	Support
	<p>2. RADIO OPERATION</p> <p>3. INTERNET RADIO*</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>LISTENING TO INTERNET RADIO</p> </div> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> <p>1 Press the “APPS” button.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  <p>AF005S</p> </div> <p>2 Select the internet radio application.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin: 10px 0;"> <p>INFORMATION</p> </div> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331.

Claim	Support
	<p>3. MEDIA OPERATION</p> <p>3. iPod</p> <p>OVERVIEW</p> <div style="border: 1px solid black; padding: 5px;"> <p>The iPod operation screen can be reached by the following methods:</p> <ul style="list-style-type: none"> ▶ Connect an iPod (→P.74) ▶ Select "iPod" on the "Select Audio Source" screen. (→P.73) <p>When the iPod connected to the system includes iPod video, the system can only output the sound by selecting the browse screen.</p> </div> <p>CONTROL SCREEN</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">  <p>The screenshot shows a control interface for an iPod. At the top left is the label 'iPod' (1) and at the top right is 'Source' (2). The main display area shows a progress bar with '10/12' in the center and '1:15' on the left and '-2:33' on the right (3). Below the progress bar is a row of five buttons: 'Browse' (8), a skip button (7), a refresh button (6), a play/pause button (5), and a volume/sound button (4).</p> </div>


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	<p style="text-align: center;">CONTROL PANEL</p>  <p style="text-align: right; margin-right: 20px;">3 AUDIO SYSTEM</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 95%;">Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Shows progress</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to play/pause.</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Select to set random playback.</td> </tr> <tr> <td style="text-align: center;">8</td> <td> Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">9</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td style="text-align: center;">10</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td style="text-align: center;">11</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> <p style="margin-top: 20px;">See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 100-01.</p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	10	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.</i></p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

Claim	Support
	<div> <p>■ About iPod</p> </div> <div>  </div> <div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. </div> <div> <p>■ iPod cover art</p> </div> <div> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. </div> <div> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 271.</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>3 Interior and exterior features</p> </div>

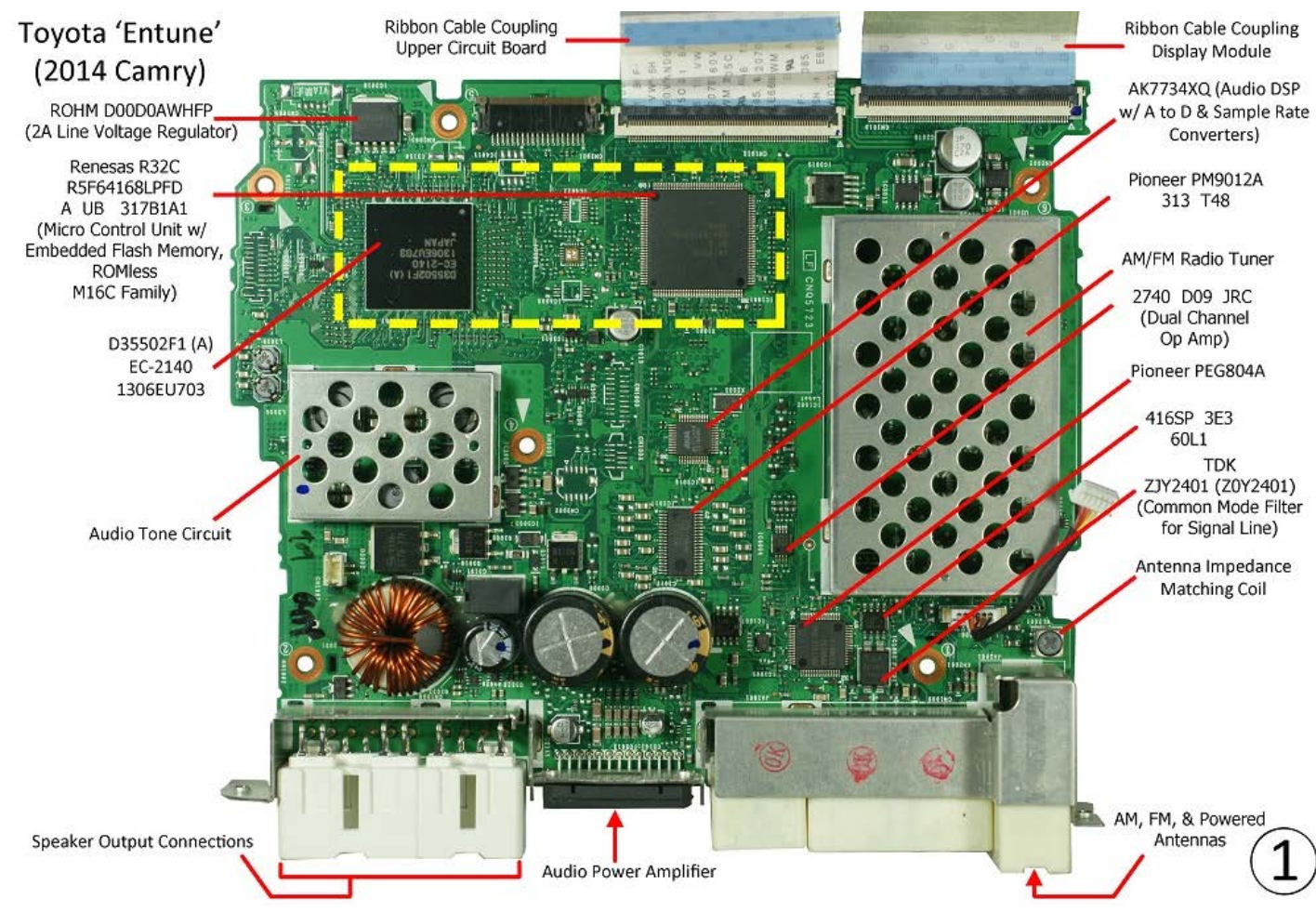
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

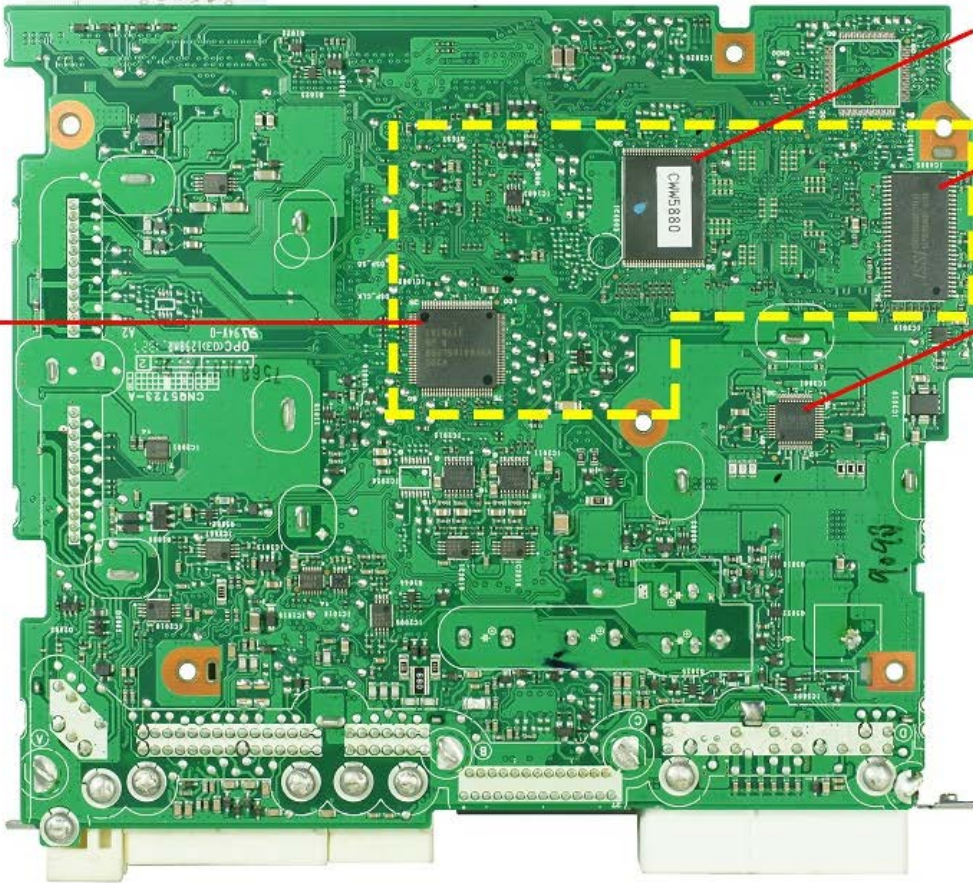
Claim	Support
	<p>■ Compatible models</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>● Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> CAUTION</p> <p>■ While driving</p> <p>Do not connect an iPod or operate the controls.</p> </div> <p><i>See, e.g., Ex. D (2015 Tacoma Owner’s Manual) at 274.</i></p>

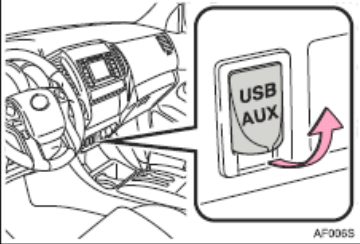
Claim	Support
	<div> </div> <p>USB/iPod®</p> <p>Hook up via a USB data cable ¹² to the USB port to gain full iPod® ¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB ¹² flash drive.</p> <p><i>See, e.g., Ex. A (www.toyota.com/entune) at 4.</i></p>
[1H] a third pre-programmed	The interface of each device integration system of the accused Toyota automobiles is pre-programmed to execute “a third pre-programmed code portion for switching to one or more auxiliary input sources connected to said third electrical connector.” At least the Renesas microcontroller of the interface (and potentially other microcontrollers on one or more circuit boards of

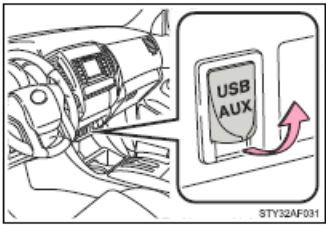
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>code portion for switching to one or more auxiliary input sources connected to said third electrical connector.</p>	<p>the device integration system) executes pre-programmed code to perform at least a portion of this function. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the interface (such as within the Renesas microcontroller itself).</p> <p>For example, that Entune system updates may be downloaded from the Internet. See video at https://www.youtube.com/watch?v=KKcFqPYpI9M).</p> <p>Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>


Claim	Support
	 <p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Pioneer PM9012A 313 T48 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil AM, FM, & Powered Antennas ROHM D00D0AWHFP (2A Line Voltage Regulator) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) D35502F1 (A) EC-2140 1306EU703 Audio Tone Circuit Audio Power Amplifier Speaker Output Connections <p style="text-align: right;">①</p>

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>②</p>

Claim	Support
	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>

Claim	Support
	<p>3-2. Using the multimedia system USB port/AUX port</p> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> <p>Connecting using the USB port/AUX port</p> <ul style="list-style-type: none"> <li>■ iPod <div>  </div> <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <ul style="list-style-type: none"> <li>■ USB memory <p>Open the cover and connect the USB memory device.</p> <p>Turn on the power of the USB memory device if it is not turned on.</p> <ul style="list-style-type: none"> <li>■ Portable audio player <p>Open the cover and connect the portable audio player.</p> <p>Turn on the power of the portable audio player if it is not turned on.</p> <div style="background-color: #FFDAB9; border: 1px solid black; padding: 2px;"> <p>▲ CAUTION</p> </div> <ul style="list-style-type: none"> <li>■ While driving <p>Do not connect a device or operate the device controls.</p> <p><i>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</i></p>

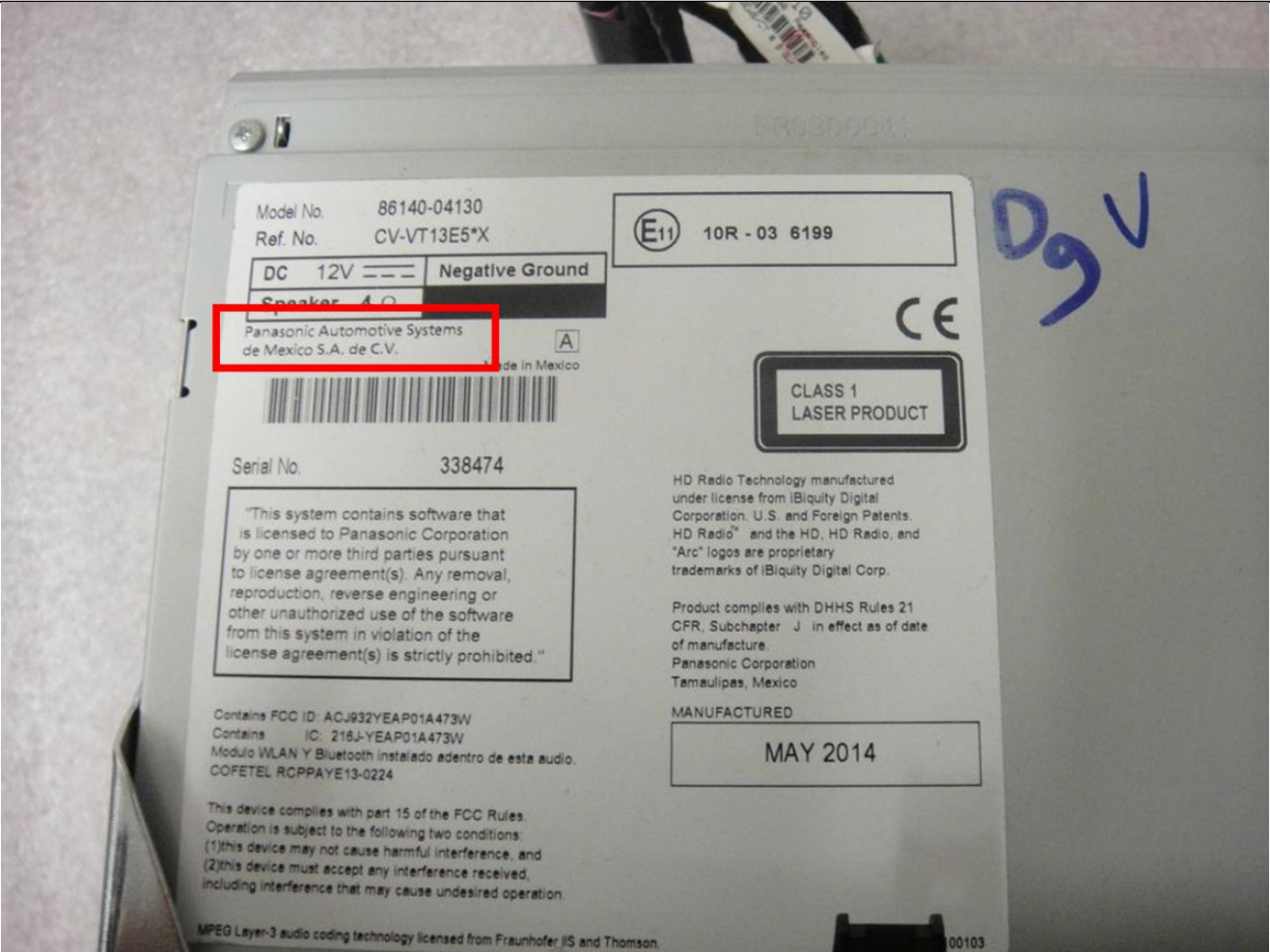
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #444; color: white; padding: 5px;"> <p>3-2. Using the multimedia system Using the AUX port</p> </div> <div style="background-color: #eee; padding: 5px; margin-top: 10px;"> <p>To use the AUX port, connect a portable player, then select "AUX" on the "Select Audio Source" screen.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting a portable audio player</p> </div> <div style="margin-top: 5px;"> <p>→P. 249</p> </div> <hr style="border: 0.5px solid black; margin: 10px 0;"/> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ■ Operating portable audio players connected to the multimedia system The volume can be adjusted using the vehicle's audio controls. All other adjustments must be made on the portable audio player itself. ■ When using a portable audio player connected to the power outlet Noise may occur during playback. Use the power source of the portable audio player. </div> <div style="background-color: #f8d7da; padding: 2px; margin-top: 10px;"> <p> CAUTION</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <ul style="list-style-type: none"> ■ While driving Do not connect a portable audio player or operate the device controls. </div> <div style="background-color: #444; color: white; text-align: center; padding: 5px; font-size: small; writing-mode: vertical-rl; transform: rotate(180deg);"> <p>3 Interior and exterior features</p> </div> <p style="margin-top: 20px;">See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 281.</p>


Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Connect an Auxiliary Device</p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect an auxiliary cable 2. Music will play automatically when connected (Note: Ensure the device connected is in Play Mode) 3. Or, touch Source or press Audio button 4. Touch AUX on the screen 5. Only the volume can be adjusted using the audio system controls. The remaining controls need to be operated on the portable audio device. <hr/> <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 2.</p>
<p>2. The apparatus of claim 1, wherein the car stereo further comprises an Original Equipment Manufacturer (OEM) car stereo connected to said first electrical connector.</p>	<p>The device integration systems of accused Toyota automobiles are manufactured for Toyota by at least Panasonic Automotive Systems.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p>The photograph shows the back of a car stereo unit with the following labels and markings:</p> <ul style="list-style-type: none"> Model No. 86140-04130 Ref. No. CV-VT13E5*X DC 12V Negative Ground Speaker 4 Ω Panasonic Automotive Systems de Mexico S.A. de C.V. (highlighted with a red box) Serial No. 338474 CLASS 1 LASER PRODUCT MAY 2014 Handwritten blue initials "DgV" on the right side.
<p>4. The apparatus of claim 1, wherein the</p>	<p>Each device integration system of the accused Toyota automobiles allows for the connection of at least MP3 players (iPods), iPhones and other smart devices.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>after-market audio device further comprises a CD player, CD changer, MP3 player, Digital Audio Broadcast (DAB) receiver, or satellite receiver connected to said second electrical connector.</p>	<div style="border: 1px solid black; background-color: #cccccc; padding: 2px; margin-bottom: 10px;">iPod</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Made for</p>  </div> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.</p>


Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div> <p>■ About iPod</p> </div> <div> <p>The image shows the 'Made for iPod iPhone' logo, which consists of the text 'Made for' above icons of an iPod and an iPhone, followed by the text 'iPod iPhone'.</p> </div> <div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. </div> <div> <p>■ iPod cover art</p> </div> <div> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. </div> <div> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 271.</p> </div> <div> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">3 Interior and exterior features</p> </div>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>■ Compatible models</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>● Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> CAUTION</p> <p>■ While driving</p> <p>Do not connect an iPod or operate the controls.</p> </div> <p><i>See, e.g., Ex. D (2015 Tacoma Owner’s Manual) at 274.</i></p>
<p>5. The apparatus of claim 1, wherein said interface</p>	<p>Each device integration system of the accused Toyota automobiles includes a plug-and-play module that automatically detects whether an iPhone/iPod or Android-powered device is attached to the USB port. For example, through Apple’s MFi Program, third party-accessories, such as the device integration systems of the accused Toyota automobiles, are licensed to connect electronically to Apple devices such as the iPhone and iPod. <i>See, e.g.,</i> https://mfi.apple.com/MFiWeb/getFAQ.action. Apple provides a framework for communications between Apple devices and third-party accessories, such as the device integration</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>further comprises a plug-and-play mode for automatically detecting a device type of the after-market audio device connected to said second electrical connector and integrating the after-market audio device based upon the device type.</p>	<p>systems of the accused Toyota automobiles, which includes the requirement that the third-party accessory includes a chip to decode communications between the accessory and a device that has identified itself as an iPod or iPhone. <i>See, e.g.</i>, http://www.objectpartners.com/2010/09/14/communicating-with-external-devices-from-the-iphone-and-ipad/.</p> <p>Similarly, Android provides tools for connecting Android-powered devices to third-party accessories using a USB connection, including a means for providing a notification that an Android-powered device is connected to the accessory. <i>See, e.g.</i>, http://developer.android.com/guide/topics/connectivity/usb/accessory.html.</p> <p>The specific manner in which the interface implements the plug-and-play mode of this claim will be ascertainable by reviewing the source code of the interface in the accused Toyota automobiles.</p> <p>INFORMATION</p> <ul style="list-style-type: none"> ● The system can only output the sound while driving ● When an iPod is connected using a genuine iPod cable, the iPod starts charging its battery. ● Depending on the iPod and the songs in the iPod, iPod cover art may be displayed. This function can be changed to on/off. (→P.111) It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume playing from the same point it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available ● Files/tracks selected by operating a connected iPod may not be recognized or displayed properly. ● If a iPhone is connected via Bluetooth® and USB at the same time, refer to http://www.toyota.com/entune/. <p><i>See, e.g.</i>, Ex. C (2015 Tacoma Navigation Manual) at 102.</p>


Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="border: 2px solid red; padding: 5px;"> <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it may resolve the problem. </div> <p>● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's multimedia system instead.</p> <p>● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use.</p> <p>● Compatible models (→P. 274)</p> <p>■ iPod problems</p> <p>To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it. For instructions on how to reset your iPod, refer to your iPod Owner's Manual.</p> <p><i>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 272.</i></p> <p><i>See also "How-To: Connect iPod® with Entune® App Suite Toyota": https://www.youtube.com/watch?v=Ym-Wir32ELs (see, e.g., "iPod" wording and art in upper left hand corner of video, demonstrating that the system can detect when an iPod is connected).</i></p>
<p>6. The apparatus of claim 1, wherein said interface generates a</p>	<p>The interface of the device integration system of each accused Toyota automobile includes a device presence signal that "maintain[s] the car stereo in an operational state responsive to processed data and audio signals." Specifically, when an after-market audio device is plugged into the USB port that is connected to the USB connector in the device integration system (i.e., the second electrical connector), a graphic appears indicating that a compatible device is connected and recognized. Once a compatible portable device is connected and recognized, the interface of the device integration system maintains the car stereo in a state responsive to processed data and audio signals from the portable device.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>device presence signal for maintaining the car stereo in a state responsive to processed data and audio signals.</p>	<p>The device presence signal is generated when at least the Renesas microcontroller of the interface (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or within firmware elsewhere in the interface (such as within the Renesas microcontroller itself).</p> <p>The specific manner in which the interface implements the device presence signal of this claim will be ascertainable by reviewing the source code of the interface in the accused Toyota automobiles.</p> <p>See e.g., Toyota USB-iPod video: https://www.youtube.com/watch?v=CwRYEJYiGWw.</p> <p>See e.g., Toyota Entune Display Audio video: https://www.youtube.com/watch?v=MuCxLDUsi8</p>
<p>7. The apparatus of claim 1, wherein said second pre-programmed code portion processes data generated by the after-market audio device including track and time information.</p>	<p>Each device integration system of the accused Toyota automobiles displays the track and time information of songs being played from a connected after-market audio device.</p> <ul style="list-style-type: none"> ● MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2 and Ver. 2.3 formats. This system cannot display disc title, track title and artist name in other formats. ● WMA/AAC files can contain a WMA/AAC tag that is used in the same way as an ID3 tag. WMA/AAC tags carry information such as track title and artist name. ● The emphasis function is available only <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 118.</p>


Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support										
	<p>● Selecting a track/file/song from the track/file/song list</p> <p>STEP 1 Select "Browse" or cover art.</p> <p>STEP 2</p>  <p>Select the desired track/file/song.</p> <p>When an MP3/WMA/AAC disc or USB memory device is being used, the folder can be selected. When a Bluetooth® device or iPod is being used, the album can be selected.</p> <p>According to the audio device, the following is displayed.</p> <table border="1"> <thead> <tr> <th>Audio source</th> <th>List name</th> </tr> </thead> <tbody> <tr> <td>Audio CD</td> <td>Track</td> </tr> <tr> <td>MP3/WMA/AAC disc, USB</td> <td>Folder, File</td> </tr> <tr> <td>Bluetooth®</td> <td>Album, Track</td> </tr> <tr> <td>iPod</td> <td>Album, Song</td> </tr> </tbody> </table> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">3 Interior and exterior features</p> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 259.</p> <p>See, e.g., Toyota USB-iPod video: https://www.youtube.com/watch?v=CwRYEJYiGWw (showing track and track time).</p>	Audio source	List name	Audio CD	Track	MP3/WMA/AAC disc, USB	Folder, File	Bluetooth®	Album, Track	iPod	Album, Song
Audio source	List name										
Audio CD	Track										
MP3/WMA/AAC disc, USB	Folder, File										
Bluetooth®	Album, Track										
iPod	Album, Song										
<p>8. The apparatus of claim 1, wherein said second pre-programmed code portion</p>	<p>Each device integration system of the accused Toyota automobiles displays the track and time information of songs being played from a connected after-market audio device.</p>										

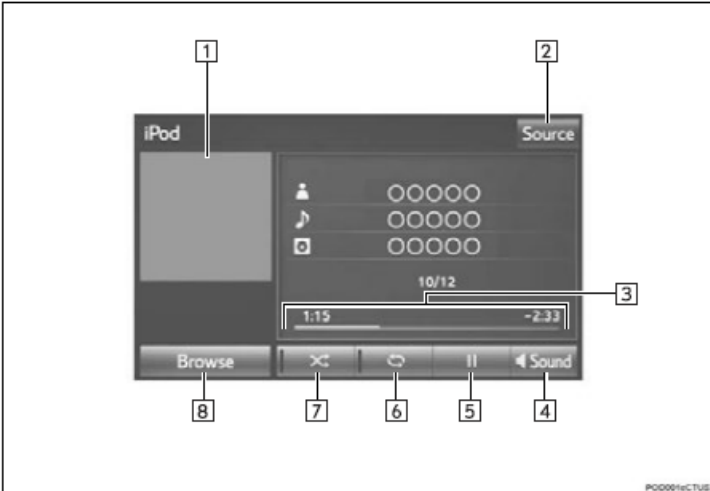
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
processes data generated by the after-market audio device including song title and artist information.	<ul style="list-style-type: none">● MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2 and Ver. 2.3 formats. This system cannot display disc title, track title and artist name in other formats.● WMA/AAC files can contain a WMA/AAC tag that is used in the same way as an ID3 tag. WMA/AAC tags carry information such as track title and artist name.● The emphasis function is available only <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 118.</p>



Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

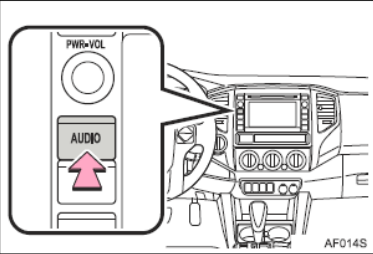



Claim	Support										
	<p>● Selecting a track/file/song from the track/file/song list</p> <p>STEP 1 Select "Browse" or cover art.</p> <p>STEP 2</p>  <p>Select the desired track/file/song.</p> <p>When an MP3/WMA/AAC disc or USB memory device is being used, the folder can be selected. When a Bluetooth® device or iPod is being used, the album can be selected.</p> <p>According to the audio device, the following is displayed.</p> <table border="1"> <thead> <tr> <th>Audio source</th> <th>List name</th> </tr> </thead> <tbody> <tr> <td>Audio CD</td> <td>Track</td> </tr> <tr> <td>MP3/WMA/AAC disc, USB</td> <td>Folder, File</td> </tr> <tr> <td>Bluetooth®</td> <td>Album, Track</td> </tr> <tr> <td>iPod</td> <td>Album, Song</td> </tr> </tbody> </table> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">3 Interior and exterior features</p> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 259.</p> <p>See, e.g., Toyota USB-iPod video: https://www.youtube.com/watch?v=CwRYEJYiGWw (showing song title and song information).</p>	Audio source	List name	Audio CD	Track	MP3/WMA/AAC disc, USB	Folder, File	Bluetooth®	Album, Track	iPod	Album, Song
Audio source	List name										
Audio CD	Track										
MP3/WMA/AAC disc, USB	Folder, File										
Bluetooth®	Album, Track										
iPod	Album, Song										
<p>10. The apparatus of claim 1, wherein said interface processes video</p>	<p>Each device integration system of the accused Toyota automobiles displays video information, such as cover art, generated by a connected after-market audio device.</p>										

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

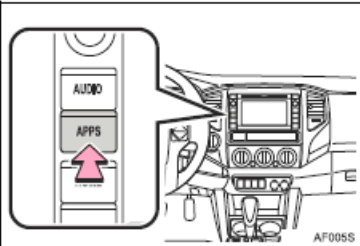

Claim	Support										
<p>information generated by the after-market audio device.</p>	<p>CONTROL SCREEN</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> <ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound setting screen.</td> </tr> </tbody> </table> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 100-01.</i></p>	No.	Function	1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.
No.	Function										
1	<ul style="list-style-type: none"> Displays cover art Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.										
2	Select to display the "Select Audio Source" screen.										
3	Shows progress										
4	Select to display the sound setting screen.										

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

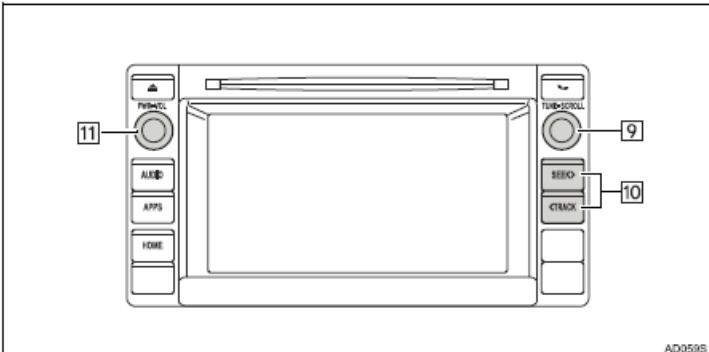
Claim	Support
	<p>Audio control screen</p>  <ul style="list-style-type: none"> 1 "Select Audio Source" screen appears 2 Displays cover art 3 Selecting the play mode 4 Shuffle play 5 Repeat play 6 Pause Select  to resume playback 7 Setting the sound (→P. 260) <p>Selecting a play mode</p> <p>See, e.g., <i>Ex. D (2015 Tacoma Owner's Manual)</i> at 270.</p> <p>See e.g. Toyota USB-iPod video (showing cover art): https://www.youtube.com/watch?v=CwRYEJYiGWw.</p> <p>See e.g. Toyota Entune Display Audio video (showing cover art): https://www.youtube.com/watch?v=MuCxLDUsi8</p>
<p>13. The apparatus of claim 1, wherein commands are input by a user using one or more control buttons or presets on the car stereo.</p>	<p>Each device integration system of the accused Toyota automobiles allows a user to control a connected after-market audio device via switches, presets, buttons and virtual controls displayed on a screen of the car stereo.</p>

Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the "AUDIO" button.</p>  <p>2 Select "Source" on the audio screen or press "AUDIO" button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select ◀ or ▶ to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select "Reorder".</p>  <p>2 Select the desired audio source then ◀ or ▶ to reorder.</p>  <p>3 Select "OK".</p> </div> </div>

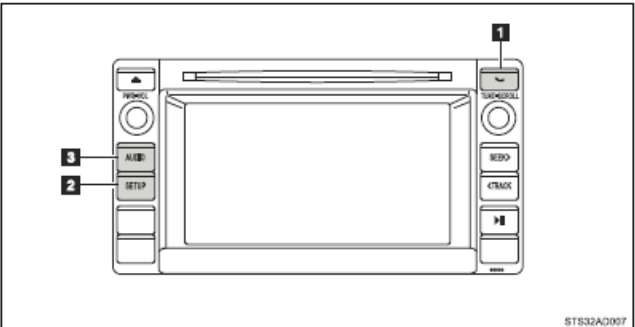

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>LISTENING TO INTERNET RADIO</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>One of Entune App Suite features is the ability to listen to internet radio. In order to use this service, a compatible phone and the system needs to be set up. For details: →P.259</p> </div> <div style="margin-top: 10px;"> <p>1 Press the “APPS” button.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <p>2 Select the internet radio application.</p> </div> <div style="text-align: center;">  </div> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> ● The internet radio application screen is displayed. ● Perform operations according to the displayed application screen. ● If a compatible phone is already registered, it will be connected automatically. </div> <div style="margin-top: 20px;"> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 92.</p> </div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; margin-top: 10px;"> <p>INFORMATION</p> </div> <div style="margin-top: 5px;"> <ul style="list-style-type: none"> ● Other applications can be activated while listening to internet radio. ● If an iPhone is connected via Bluetooth® and USB at the same time, the Entune App Suite applications may become unusable. If connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®. ● Some parts of applications can be adjusted using the switches on the steering wheel. ● For additional information, refer to http://www.toyota.com/entune/ or call 1-800-331-4331. </div>

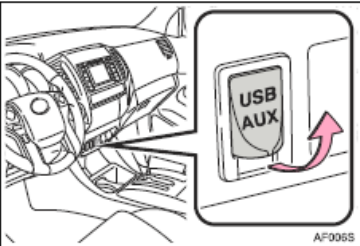
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support																								
	<p>CONTROL PANEL</p>  <p style="text-align: right; margin-right: 50px;">3 AUDIO SYSTEM</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 10%;">No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td> <ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Shows progress</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to play/pause.</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Select to set random playback.</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td style="text-align: center;">9</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td style="text-align: center;">10</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td style="text-align: center;">11</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 101.</p>	No.	Function	1	<ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen.	2	Select to display the "Select Audio Source" screen.	3	Shows progress	4	Select to display the sound setting screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	10	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	11	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
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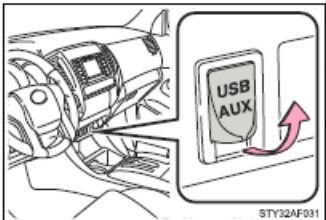
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>3-2. Using the multimedia system Entune Audio*</p> <p>Operations such as listening to audio, using the hands-free phone, confirming vehicle information and changing multimedia system settings are started by using the following buttons.</p> <p>Multimedia system operation buttons</p>  <p>1  button Press this button to access the Bluetooth® hands-free system. (→P. 305)</p> <p>2 "SETUP" button Press this button to customize the function settings. (→P. 250)</p> <p>3 "AUDIO" button Display the "Select Audio Source" screen or audio control screen. (→P. 257)</p> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 245.</p> <p>See, e.g., Toyota USB-iPod video: https://www.youtube.com/watch?v=CwRYEJYiGWw.</p> <p>See, e.g., Toyota Entune Display Audio video: https://www.youtube.com/watch?v=MuCaxLDUsi8.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>14. The apparatus of claim 1, wherein audio signals from the one or more auxiliary input sources are selectively channeled to the car stereo by said interface.</p>	<p>Each device integration system of the accused Toyota automobiles also allows for various input sources to be connected to an auxiliary input electrical connector and played through the car speakers.</p> <p>Connect an Auxiliary Device</p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect an auxiliary cable 2. Music will play automatically when connected (Note: Ensure the device connected is in Play Mode) 3. Or, touch Source or press Audio button 4. Touch AUX on the screen 5. Only the volume can be adjusted using the audio system controls. The remaining controls need to be operated on the portable audio device. <hr/> <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 2.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> </div> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device.</p> </div> <div style="margin-left: 20px;"> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player.</p> </div> <div style="margin-left: 20px;"> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffcccc; border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>■ While driving Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 10px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

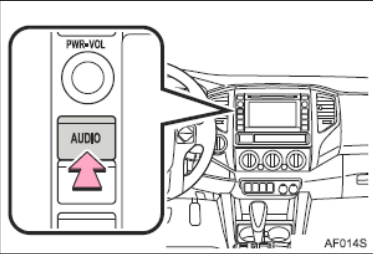



Claim	Support
	<div style="background-color: #cccccc; padding: 5px; margin-bottom: 10px;"> 3-2. Using the multimedia system Using the AUX port </div> <div style="background-color: #e0e0e0; padding: 5px; margin-bottom: 10px;"> To use the AUX port, connect a portable player, then select "AUX" on the "Select Audio Source" screen. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Connecting a portable audio player →P. 249 </div> <hr/> <div style="margin-bottom: 10px;"> <p>■ Operating portable audio players connected to the multimedia system The volume can be adjusted using the vehicle's audio controls. All other adjustments must be made on the portable audio player itself.</p> <p>■ When using a portable audio player connected to the power outlet Noise may occur during playback. Use the power source of the portable audio player.</p> </div> <div style="background-color: #ffccff; padding: 5px; margin-bottom: 10px;"> <p>CAUTION</p> <p>■ While driving Do not connect a portable audio player or operate the device controls.</p> </div> <div style="text-align: right; font-size: small; margin-right: 20px;"> 3 Interior and exterior features </div> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 281.</p> <p>See, e.g., Toyota USB-iPod video (showing USB and auxiliary ports): https://www.youtube.com/watch?v=CwRYEJYiGWw.</p>
23. The apparatus of claim 1, further comprising a bus connection established	Each device integration system of the accused Toyota automobiles connects to after-market audio devices using a USB bus connector (i.e., second electrical connector) for connecting, via a cable, to an after-market audio device external to the car stereo, such as a MP3 player or iPhone. The USB connector communicates using the Universal Serial Bus protocol.

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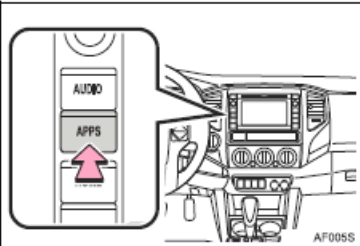

Claim	Support
<p>between the after-market audio device and said interface.</p> <p>24. The apparatus of claim 23, wherein the bus connection comprises a Universal Serial Bus (USB) connection.</p>	<p>Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

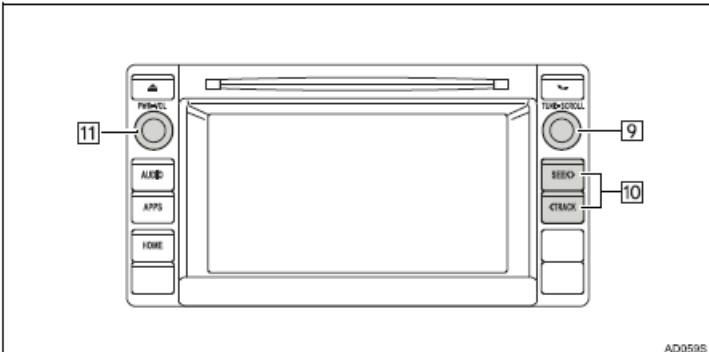
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	<div></div> <p>USB/iPod[®]</p> <p>Hook up via a USB data cable ¹² to the USB port to gain full iPod[®] ¹¹ connectivity and control, right from the touchscreen interface on the multimedia system or play MP3 music files stored on a USB ¹² flash drive.</p> <p>See, e.g., Ex. A (www.toyota.com/entune) at 4.</p>

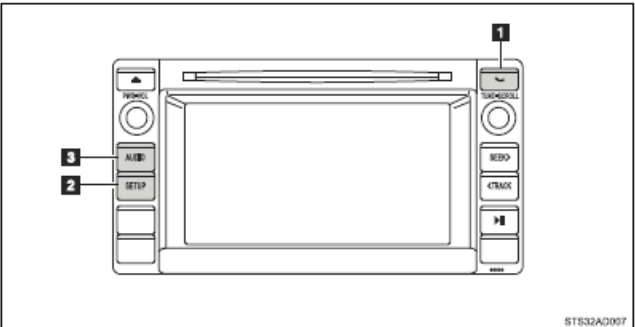

Claim	Support
	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SELECTING AN AUDIO SOURCE</p> <p>1 Press the “AUDIO” button.</p>  <p>2 Select “Source” on the audio screen or press “AUDIO” button again.</p> <p>3 Select the desired source.</p>  <p>(INFORMATION)</p> <ul style="list-style-type: none"> ● Dimmed screen buttons cannot be operated. ● When there are two pages, select ◀ or ▶ to change the page. <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 73.</p> </div> <div style="width: 48%;"> <p>REORDERING THE AUDIO SOURCE</p> <p>1 Select “Reorder”.</p>  <p>2 Select the desired audio source then ◀ or ▶ to reorder.</p>  <p>3 Select “OK”.</p> </div> </div>

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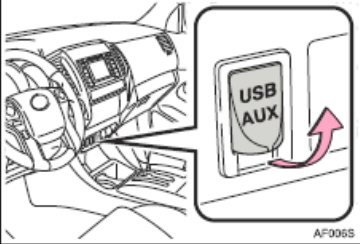
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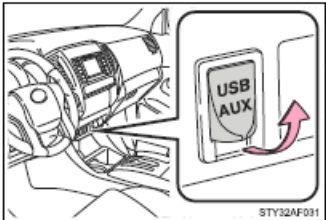
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	<p>USB/AUX PORT</p> <p>1 Open the cover and connect a device.</p>  <p>● Turn on the power of the device if it is not turned on.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 74.</i></p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>3-2. Using the multimedia system USB port/AUX port</p> </div> <div style="background-color: #e0e0e0; padding: 5px; margin-top: 10px;"> <p>Connect an iPod, USB memory device or portable audio player to the USB port/AUX port as indicated below. Select "iPod", "USB" or "AUX" on the "Select Audio Source" screen and the device can be operated via multimedia system.</p> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 10px;"> <p>Connecting using the USB port/AUX port</p> </div> <div style="margin-top: 10px;"> <p>■ iPod</p> </div> <div style="display: inline-block; vertical-align: top;">  </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Open the cover and connect an iPod using an iPod cable.</p> </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <p>Turn on the power of the iPod if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ USB memory</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the USB memory device.</p> </div> <div style="margin-left: 20px;"> <p>Turn on the power of the USB memory device if it is not turned on.</p> </div> <div style="margin-top: 10px;"> <p>■ Portable audio player</p> </div> <div style="margin-left: 20px;"> <p>Open the cover and connect the portable audio player.</p> </div> <div style="margin-left: 20px;"> <p>Turn on the power of the portable audio player if it is not turned on.</p> </div> <div style="background-color: #ffccff; border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ CAUTION</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>■ While driving Do not connect a device or operate the device controls.</p> </div> <div style="margin-top: 10px;"> <p>See, e.g., Ex. D (2015 Tacoma Owner's Manual) at 249.</p> </div>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>iPod®/USB 2.0/AUX</p> <p>Connect an iPod®</p> <p>Connect your iPod®¹¹ or USB ¹² device and play your music through your multimedia system.</p> <p>Connecting an iPod® ¹¹ using the USB port enables users to enjoy music or other iPod® ¹¹ content via the vehicle's speakers.</p> <p><i>Note: "Press" refers to hard buttons on the sides of the screen; "Touch" refers to the display screen (phone or multimedia system).</i></p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect an iPod® ¹¹ 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. The iPod® ¹¹ will begin playing and song information will be displayed 4. Touch Source to select an alternate source <p>Play an iPod®</p> <p>The title of the album and song you are currently listening to will be displayed, as well as the album art if available</p> <ol style="list-style-type: none"> 1. Touch II to pause the track 2. Touch > to resume playing the track 3. Press and hold the Λ SEEK / ∇ TRACK button to fast-forward or rewind. When you release the button, the player will start playing from that position. 4. Press and release the Λ SEEK / ∇ TRACK button to advance to the next track or go back to the previous track <p>Connect a USB Device</p> <ol style="list-style-type: none"> 1. Open the cover of the USB/AUX port and connect a USB memory device 2. The actual position of the USB port ¹² may differ depending on the vehicle. For details, see the pictorial index of the vehicle <i>Owner's Manual</i> 3. Plug in memory device 4. Music will begin playing <p>See, e.g., Ex. B (http://www.toyota.com/entune/support/entune-premium-audio/multimedia/ipod-usb-aux.html#!camry/2015) at 1.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>44. An apparatus for docking a portable device for integration with a car stereo comprising:</p>	<p>See preamble [1P] support.</p>
<p>a storage area remote from a car stereo for storing the portable device;</p>	<p>The accused Toyota automobiles include “storage areas remote from the car stereo for storing the portable device,” including glove boxes, center consoles and dash receptacles.</p> <p>See, e.g., Toyota USB-iPod video (showing connected iPod stored in a storage area underneath car stereo): https://www.youtube.com/watch?v=CwRYEJYiGWw</p>

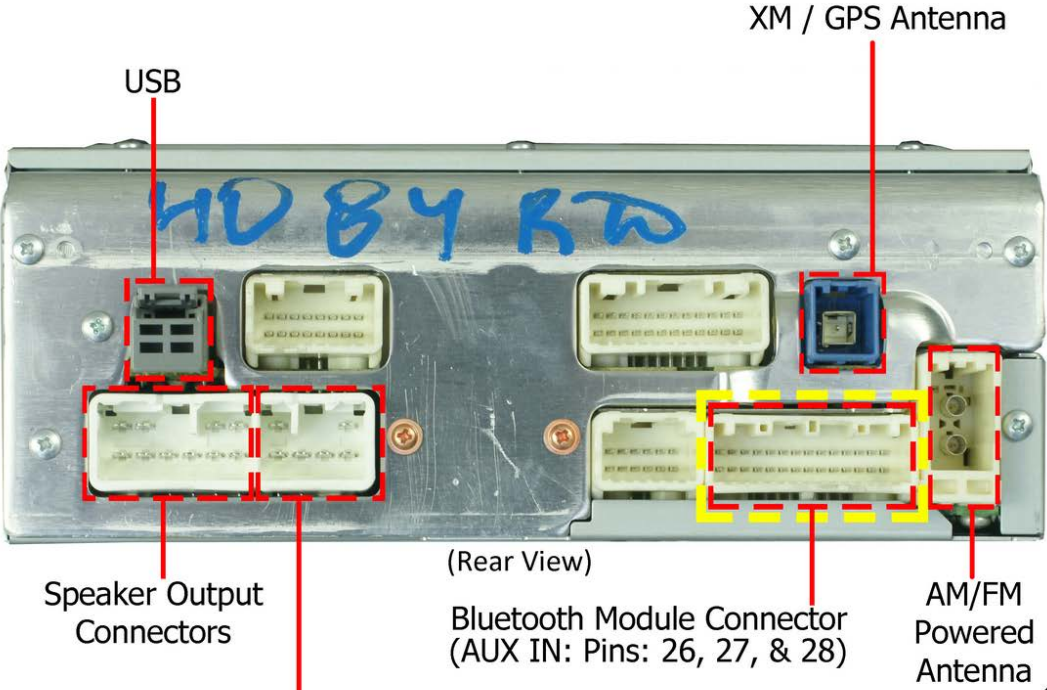
Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p><i>See, e.g.,</i> http://www.toyota.com/camry/photo-gallery/photos (captured 11/13/2015)</p>
<p>a docking portion within the storage area for communicating and physically mating with the portable device;</p>	<p>Each accused Toyota automobile includes a “docking portion within the storage area for communicating and physically mating with the portable device.” The USB port itself may be considered a “docking portion.” The after-market audio device may also be stored in various locations throughout the vehicle when connected to the USB port, including in the storage space in the central portion of the dashboard.</p> <p><i>See, e.g.,</i> Toyota USB-iPod video (showing iPod stored connected to a USB port located within a storage area underneath car stereo): https://www.youtube.com/watch?v=CwRYEJYiGWw</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p>Docking Portion</p> <p>Storage Area</p> <p>Support</p> <p>7 of 29</p> <p><i>See, e.g.,</i> http://www.toyota.com/camry/photo-gallery/photos (captured 11/13/2015)</p>
<p>a data port in communication with the docking portion, the data port connectable with a device</p>	<p>Each accused Toyota automobile includes a data port (USB port) in the device integration system attached to a cable from the back side of the “docking portion”) for integrating portable devices (such as MP3 players, iPhones, iPads, and other smart devices) with the car stereo.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>for integrating the portable device with the car stereo; and</p>	<p style="text-align: center;">Toyota 'Entune' - (2014 Camry)</p>  <p style="text-align: center;">(Rear View)</p>
<p>an interface connected to said data port and to the car stereo, said interface channeling audio from the portable device to the car</p>	<p>Each device integration system of the accused Toyota automobiles includes “an interface connected to said data port and to the car stereo, said interface channeling audio from the portable device to the car stereo.”</p> <p>See element [1D] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
stereo	
said interface including a microcontroller in electrical communication with the portable device through said data port and the car stereo,	See element [1E] support.
said microcontroller pre-programmed to execute first program code for remotely controlling the portable device using the car stereo by processing control commands generated by the car stereo in a format incompatible with the portable device into formatted control	<p>At least the Renesas microcontroller of each device integration system of the accused Toyota automobiles is “pre-programmed to execute first program code for remotely controlling the portable device using the car stereo by processing control commands generated by the car stereo in a format incompatible with the portable device into formatted control commands compatible with the portable device, and dispatching formatted control commands to the portable device for execution thereby.”</p> <p>See element [1F] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>commands compatible with the portable device, and dispatching formatted control commands to the portable device for execution thereby.</p>	
<p>47. The apparatus of claim 44, wherein the data port comprises an RS-232 or Universal Serial Bus (USB) port.</p>	<p>The data port of each accused Toyota automobile “comprises [a] Universal Serial Bus (USB) port.”</p> <p>See claims 23 and 24 support.</p>
<p>57. An audio device integration system comprising:</p>	<p>See preamble [1P] support.</p>
<p>a first electrical connector connectable to a car stereo;</p>	<p>See element [1A] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
a second electrical connector connectable to a portable MP3 player external to the car stereo	<i>See element [1B] support.</i>
an interface connected between said first and second electrical connectors for transmitting audio from a portable MP3 player to a car stereo,	<i>See element [1D] support.</i>
said interface including a microcontroller in electrical communication with said first and second electrical connectors, said microcontroller pre-programmed to execute:	<i>See element [1E] support.</i>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>a first pre-programmed code portion for generating a device presence signal and transmitting the signal to the car stereo to maintain the car stereo in an operational state; and</p>	<p>See claim 6 support.</p>
<p>a second pre-programmed code portion for remotely controlling the MP3 player using the car stereo by receiving a control command from the car stereo through said first electrical connector in a format incompatible with the MP3 player,</p>	<p>See element [1F] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
processing the control command into a formatted control command compatible with the MP3 player, and transmitting the formatted control command to the MP3 player through said second electrical connector for execution by the MP3 player.	
58. The apparatus of claim 57, wherein the car stereo further comprises an Original Equipment Manufacturer (OEM) car stereo connected to	See claim 2 support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
the first electrical connector.	
60. The system of claim 57, wherein said microcontroller is pre-programmed to execute a third code portion for receiving data from the MP3 player in a format incompatible with the car stereo, processing received data into formatted data compatible with the car stereo, and transmitting formatted data to the car stereo for display thereby.	See element [1G] support.
61. The	See claim 7 support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
apparatus of claim 60, wherein said third code portion processes data generated by the MP3 player including track and time information.	
62. The apparatus of claim 60, wherein said third code portion processes data generated by the MP3 player including song title and artist information.	See claim 8 support.
63. The apparatus of claim 60, wherein commands are input by a user using one or more control	See claim 13 support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
buttons or presets on the car stereo.	
<p>64. The apparatus of claim 57, further comprising a bus connection established between the MP3 player and said interface.</p> <p>65. The apparatus of claim 64, wherein the bus connection comprises a Universal Serial Bus (USB) connection.</p>	<p>See claims 23 and 24 support.</p>
<p>86. A device for integrating video information for use with a car stereo, comprising:</p>	<p>See preamble [1P] support.</p>
a first electrical	<p>See element [1A] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
connector connectable to a car stereo;	
a second electrical connector connectable to an after-market video device external to the car stereo;	See element [1B] support.
an interface connected between said first and second electrical connectors for transmitting video information from the after-market video device to the car stereo,	See element [1D] support.
the interface including a microcontroller in electrical communication with said first and second electrical connectors,	See element [1E] support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
said microcontroller pre-programmed to execute:	
a first pre-programmed code portion for generating a device presence signal and transmitting the signal to the car stereo through said first electrical connector to maintain the car stereo in an operational state responsive to signals generated by the after-market video device.	See claim 6 support.
88. The apparatus of claim 86, further	See claims 23 and 24 support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>comprising a bus connection established between the video device and said interface.</p> <p>89. The apparatus of claim 88, wherein the bus connection comprises a Universal Serial Bus (USB) connection.</p>	
<p>90. The apparatus of claim 86, wherein said microcontroller is pre-programmed to execute a second code portion for receiving a control signal from the car stereo in a format</p>	<p>See element [1F] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>incompatible with the video device, processing a received control signal into a formatted control signal compatible with the video device, and transmitting the formatted control signal to the video device for execution thereby.</p>	
<p>91. The apparatus of claim 90, wherein said microcontroller is pre-programmed to execute a third code portion for receiving data from the video device incompatible</p>	<p>See element [1G] support.</p>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
with the car stereo, processing received data into formatted data compatible with the car stereo, and transmitting formatted data to the car stereo for display thereon.	
92. An audio device integration system comprising:	<i>See preamble [1P] support.</i>
a car stereo; a portable audio device external to the car stereo;	<i>See element [1A] support.</i>
an interface connected between the car stereo and the portable audio device,	<i>See elements [1A] and [1D] support.</i>
the interface	<i>See element [1E] support.</i>

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
including a microcontroller pre-programmed to execute:	
first pre-programmed means for generating a device presence signal and transmitting the signal to the car stereo to maintain the car stereo in an operational state;	See claim 6 support.
second pre-programmed means for remotely controlling the portable audio device using the car stereo by receiving a control command from the car stereo in a format incompatible	See element [1F] support.

Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>with the portable audio device, processing the control command into a formatted control command compatible with the portable audio device, and transmitting the formatted control command to the portable audio device for execution thereby; and</p>	
<p>means for transmitting audio from the portable audio device to the car stereo.</p>	<p>See element [1G] support.</p>
<p>94. The apparatus of claim 92, wherein the portable audio</p>	<p>See preamble [1P] support.</p>



Appendix A - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
device comprises a portable MP3 player.	
97. The apparatus of claim 92, wherein the second electrical connector comprises further comprising a bus connection established between the portable audio device and said interface. 98. The apparatus of claim 97, wherein the bus connection comprises a Universal Serial Bus (USB) connection.	See claims 23 and 24 support.


Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

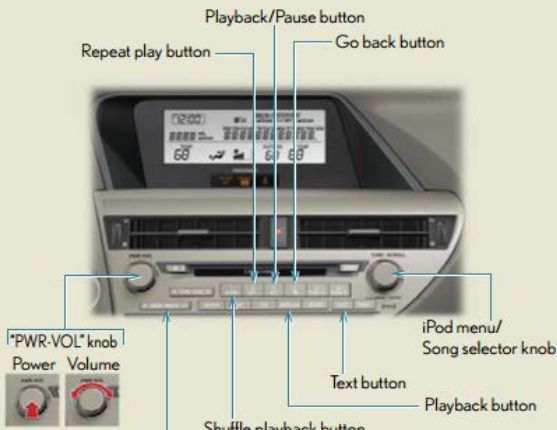
In these Infringement Contentions, Blitzsafe contends that at least the following claims of U.S. Patent No. 7,489,786 (“’786 patent”) identified below are infringed by the infotainment systems in accused Lexus automobiles. Blitzsafe does not concede that any claims of the ’786 patent that are not listed below are not infringed by the infotainment systems in accused Lexus automobiles. Moreover, the citations to certain documents and other information below are intended to be exemplary only and in no way foreclose Blitzsafe from citing or relying on additional documents, information, source code, and/or testimony at a later time. These contentions are preliminary in nature, and an analysis of Lexus’s infotainment systems, internal documentation and/or testimony from relevant witnesses may be necessary to more fully and accurately describe the infringing features of its accused products. Accordingly, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions once such additional information is made available to Blitzsafe. Furthermore, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions as discovery in this case progresses; in view of the Court’s claim construction order(s); in view of any positions taken by Lexus, including but not limited to positions on claim construction, invalidity, and/or non-infringement; and in connection with the preparation and exchange of expert reports.

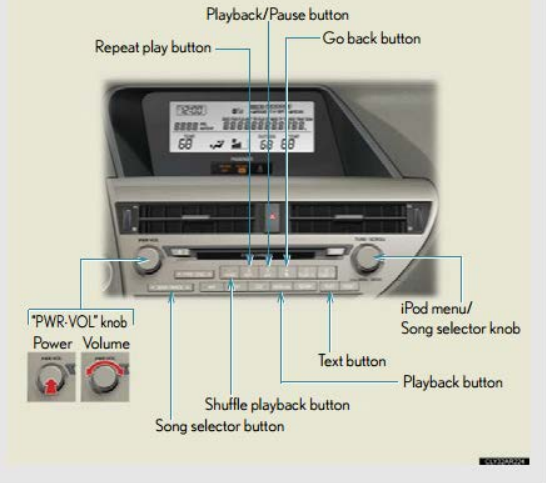
Claim	Support
1[P]. An audio device integration system comprising:	Each accused Lexus automobile includes a device integration system that supports docking integration of audio/video devices such as freely lying or docked smartphones and other smart devices, as well as MP3 players (e.g., iPods and iPhones playing MP3 files). Accused Lexus automobiles also support device integration of smartphones and other smart devices (e.g., iPods and iPhones) for playing audio streamed over the Internet, such as via iTunes, and/or Apple Music.

Claim	Support
	<div><p>3-3. Using the Lexus Display Audio system Listening to an iPod</p><p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p><p>■ Connecting an iPod</p><p>STEP 1</p><p>Pull up the lever to release the lock, and lift the armrest.</p><p>STEP 2</p><p>Open the cover and connect an iPod using an iPod cable. Turn on the power of the iPod if it is not turned on.</p><p>394</p></div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i>¹</p>

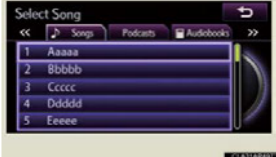



¹ Blitzsafe has produced Ex. A, 2015 Lexus RX350 Owner's Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000884 – 1769. All pin-cites are to manual pages.

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>3 Interior features</p></div> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>








Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with several buttons and knobs. Labels with arrows point to the following components: Playback/Pause button, Repeat play button, Go back button, iPod menu/Song selector knob, Text button, Playback button, Shuffle playback button, and Song selector button. A separate inset shows the 'PWR-VOL' knob with 'Power' and 'Volume' labels.</p></div> <p>Interior features</p> <p>511</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</i></p>

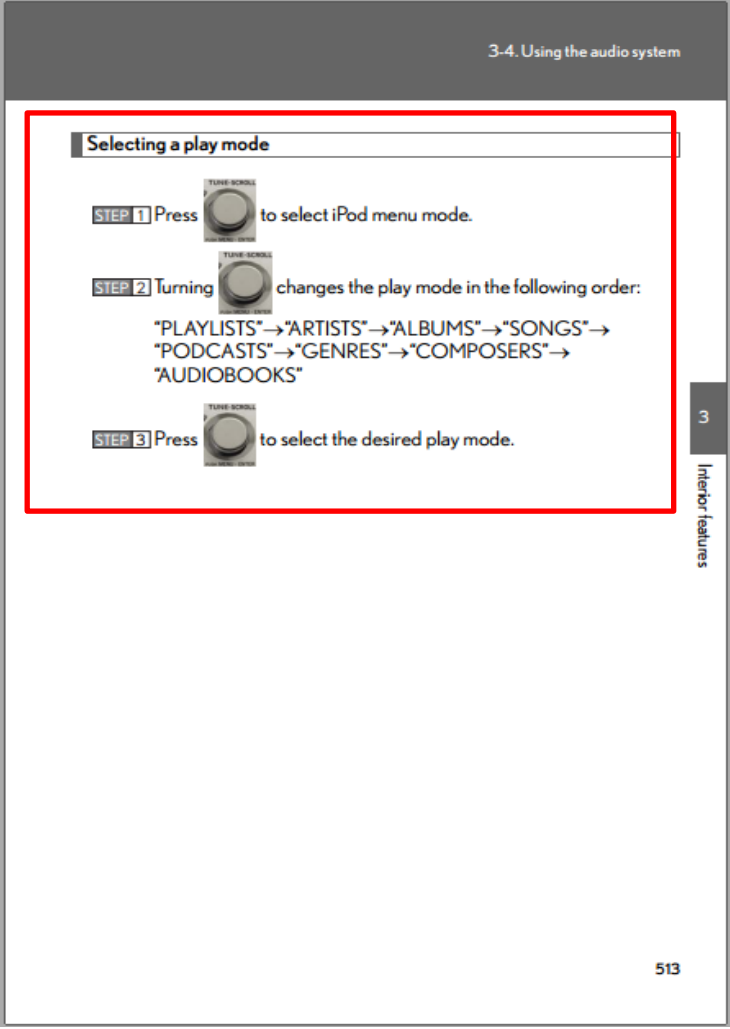



Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>▶ Type B</p><p>The diagram shows a car's audio system interface with several controls labeled with lines pointing to them:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back button'PWR-VOL' knob (with sub-labels Power and Volume)iPod menu/Song selector knobText buttonShuffle playback buttonSong selector buttonPlayback button</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>




Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 1px solid red; padding: 5px;"> <p>Selecting a play mode</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired play mode by selecting the "Playlists", "Artists", "Albums", "Songs", "Podcasts", "Audio books", "Genres" or "Composers" tabs.</p>  </div> <p>Selecting, fast-forwarding and reversing songs</p> <ul style="list-style-type: none"> ■ Selecting one song at a time Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired song. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep. ■ Selecting a song from audio control screen Select  or . ■ Selecting a song from the list <p>STEP 1 Select "Songs" on the screen.</p> <p>STEP 2 Select the desired song.</p>  </div> <p style="text-align: right; margin-top: 10px;">397</p>












See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 397.

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Shuffle play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Playing the songs in shuffle<li>↓ : Playing the albums in the iPod in shuffle<li>↓ : Off<p>When a large number of songs is stored in an iPod, shuffle selection may take time.</p><p>Repeat play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Repeating the song<li>↓ : Off</div> <p>398</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 398.</i></p>

Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting a play mode</p> <p>STEP 1 Press  to select iPod menu mode.</p> <p>STEP 2 Turning  changes the play mode in the following order: "PLAYLISTS" → "ARTISTS" → "ALBUMS" → "SONGS" → "PODCASTS" → "GENRES" → "COMPOSERS" → "AUDIOBOOKS"</p> <p>STEP 3 Press  to select the desired play mode.</p> <p>513</p> <p>Interior features</p>

See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 513.

Claim	Support																																														
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>■ Play mode list</p> <table border="1"> <thead> <tr> <th>Play mode</th> <th>First selection</th> <th>Second selection</th> <th>Third selection</th> <th>Fourth selection</th> </tr> </thead> <tbody> <tr> <td>*PLAYLISTS*</td> <td>Playlists select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*ARTISTS*</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*ALBUMS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*SONGS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>*PODCASTS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*GENRES*</td> <td>Genre select</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> </tr> <tr> <td>*COMPOSERS*</td> <td>Composers select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*AUDIOBOOKS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>■ Selecting a list</p> <p>STEP 1 Turn  to display the first selection list.</p> <p>STEP 2 Press  to select the desired item. Pressing the knob changes to the second selection list.</p> <p>STEP 3 Repeat the same procedure to select the desired item. To return to the previous selection list, select "GO BACK" or press .</p> <p>514</p> </div> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 514.</i></p>		Play mode	First selection	Second selection	Third selection	Fourth selection	*PLAYLISTS*	Playlists select	Songs select	-	-	*ARTISTS*	Artists select	Albums select	Songs select	-	*ALBUMS*	Albums select	Songs select	-	-	*SONGS*	Songs select	-	-	-	*PODCASTS*	Albums select	Songs select	-	-	*GENRES*	Genre select	Artists select	Albums select	Songs select	*COMPOSERS*	Composers select	Albums select	Songs select	-	*AUDIOBOOKS*	Songs select	-	-	-
Play mode	First selection	Second selection	Third selection	Fourth selection																																											
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AUDIOBOOKS	Songs select	-	-	-																																											

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> </div> <p style="text-align: right; font-size: small;">515</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Adjusting sound quality and volume balance</p> <p>STEP 1 Press  to enter iPod menu mode.</p> <p>STEP 2 Pressing  changes sound modes. (→P. 552)</p> </div> <p>■ About iPod</p> <div style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p>Made for</p> <div style="display: flex; align-items: center; justify-content: center;">  iPod  iPhone </div> </div> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>516</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</i></p>



Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <hr/> <p>■ About iPod</p> <div style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Made for</p> <div style="display: flex; justify-content: space-around; align-items: center;"> iPod iPhone </div> </div> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. ● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p style="text-align: right;">399</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</i></p>

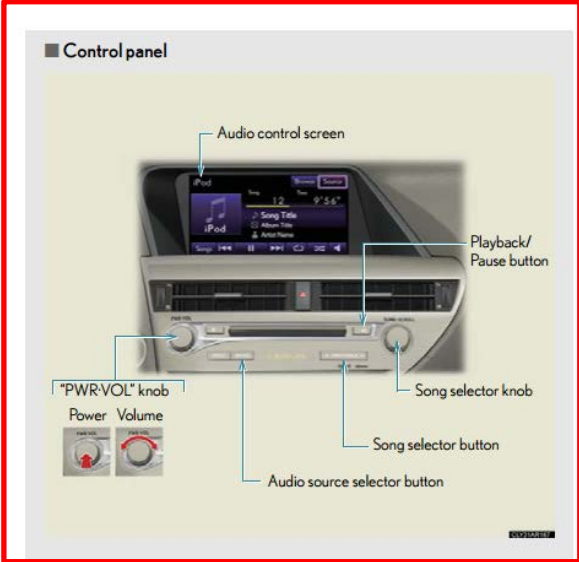
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

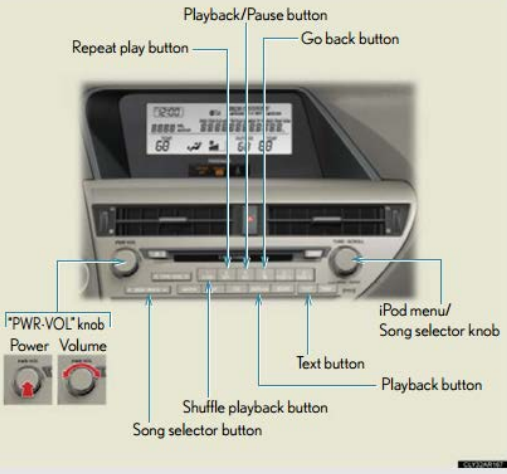
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <p>■ iPod problems</p> <p>To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it. For instructions on how to reset your iPod, refer to your iPod Owner's Manual.</p> <p>■ Error messages</p> <p>"Connection error. Please consult your Owner's Manual for instructions on how to connect the iPod.":</p> <p style="padding-left: 40px;">This indicates a problem in the iPod or its connection.</p> <p>"There are no songs available for playback. Please load compatible media to your iPod.":</p> <p style="padding-left: 40px;">This indicates that there is no music data in the iPod.</p> <p>■ Compatible models</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>● Made for</p> <ul style="list-style-type: none"> • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p>400</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 400.</i></p>

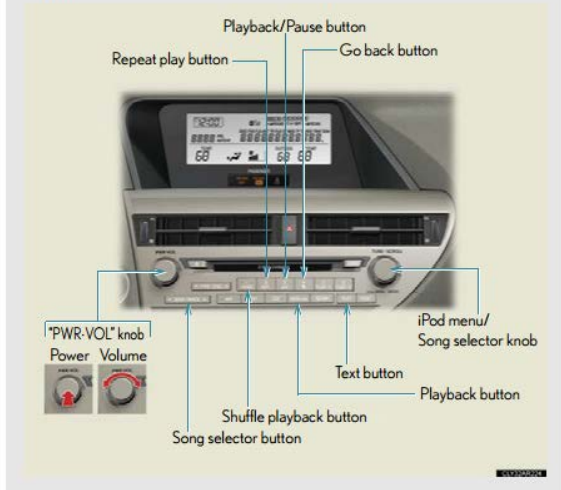
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
[1A] a first connector electrically connectable to a car stereo;	Each device integration system of the accused Lexus automobiles includes a car stereo, including one or more car stereo components, such as, e.g., DSPs, coils, tuner circuitry, car stereo software, virtual buttons, display unit, etc. The device integration system also includes an interface for, among other things, channeling audio signals to the car stereo from an after-market audio device, such as an iPhone, connected via a USB connector. The device integration system includes “a first connector electrically connectable to a car stereo” because, as set forth below, the car stereo controls may be used to control the after-market audio device, and because the car stereo receives information from the after-market audio device regardless of the particular configuration of the device integration system. The “first connector electrically connectable to a car stereo” may include an electrical connector such as a circuit board connector, soldered connector, wired connector or software/virtual connector that is connectable to the car stereo or any component thereof.

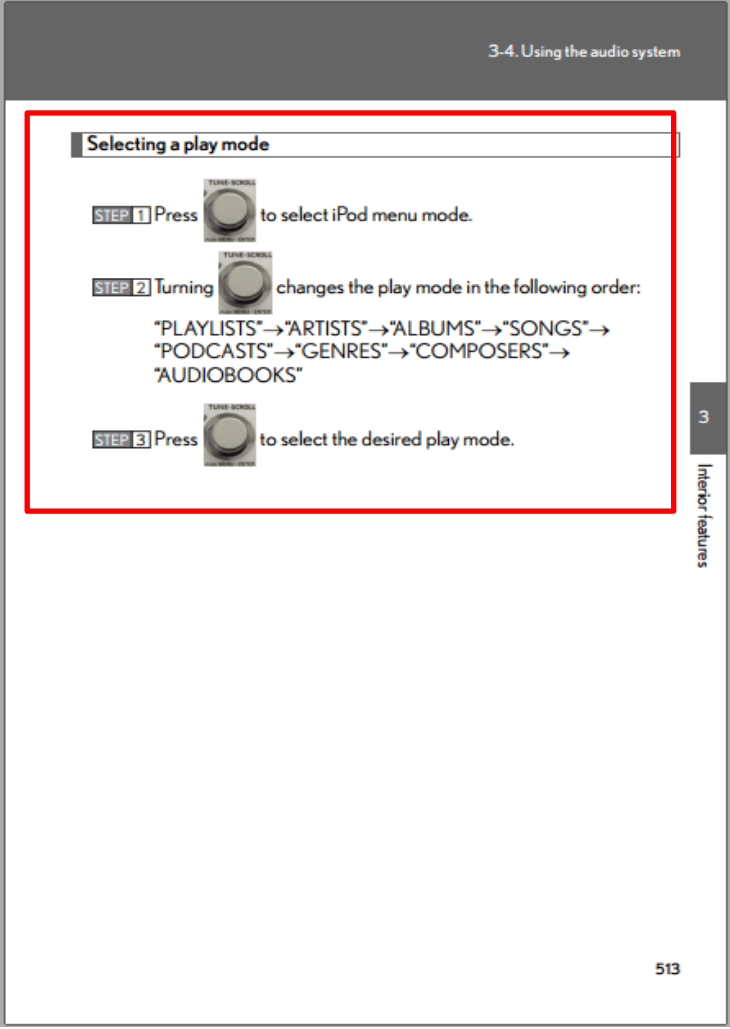



Claim	Support
	<p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <div style="border: 2px solid red; padding: 10px;"><p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p><p>■ Connecting an iPod</p><div><p>STEP 1</p></div><p>Pull up the lever to release the lock, and lift the armrest.</p><div><p>STEP 2</p></div><p>Open the cover and connect an iPod using an iPod cable.</p><p>Turn on the power of the iPod if it is not turned on.</p></div> <p>394</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i></p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a control panel for a Lexus Display Audio system. It features an 'Audio control screen' at the top displaying 'iPod' and song information. Below the screen are several controls: a 'Playback/Pause button', a 'Song selector knob', and a 'Song selector button'. On the left side, there is a 'PWR-VOL' knob with 'Power' and 'Volume' indicators. At the bottom center, there is an 'Audio source selector button'. The entire control panel area is enclosed in a red rectangular border.</p></div> <p>3</p> <p>Interior features</p> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with several labeled components: Playback/Pause button, Repeat play button, Go back button, iPod menu/Song selector knob, Text button, Playback button, Shuffle playback button, Song selector button, and PWR-VOL* knob (Power and Volume). The entire diagram is enclosed in a red rectangular border.</p></div> <p>3</p> <p>Interior features</p> <p>511</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>












Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back button'PWR-VOL' knob (Power and Volume)iPod menu/Song selector knobText buttonShuffle playback buttonSong selector buttonPlayback button</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

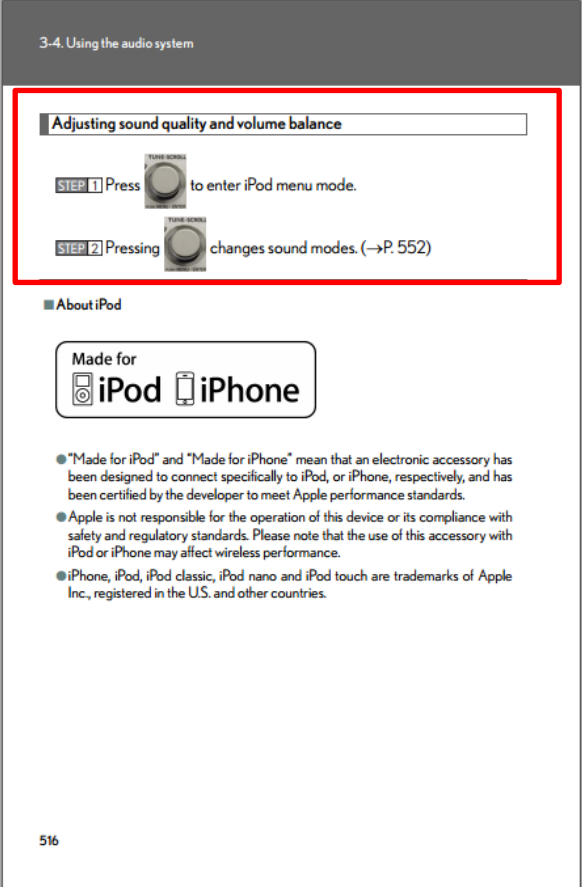




Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div>  </div> <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

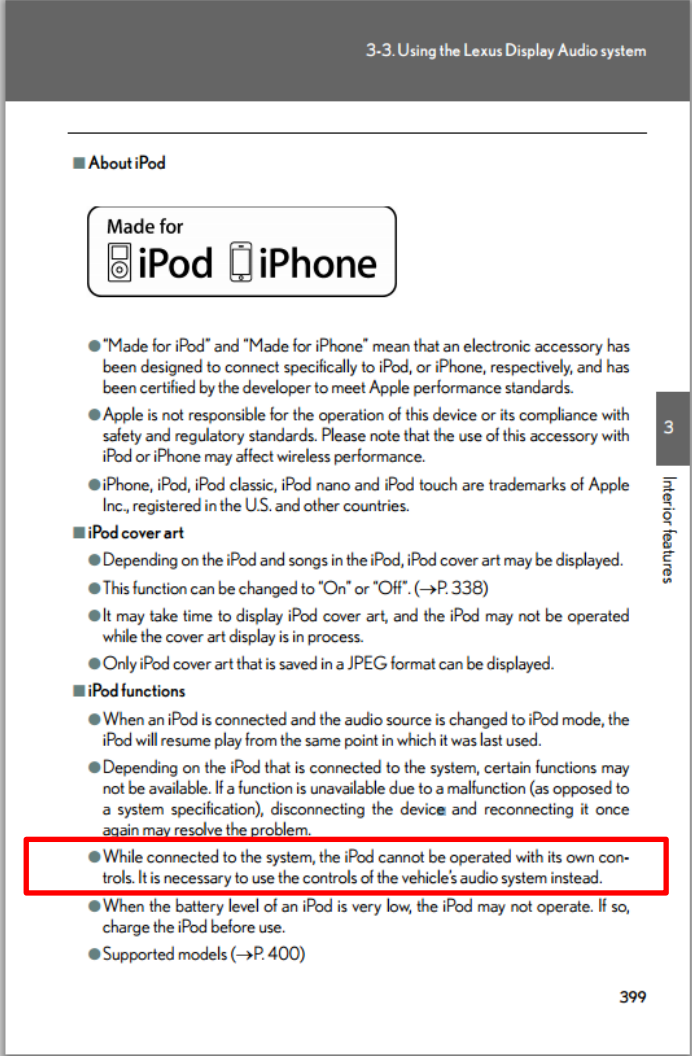
Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting a play mode</p> <p>STEP 1 Press  to select iPod menu mode.</p> <p>STEP 2 Turning  changes the play mode in the following order: "PLAYLISTS" → "ARTISTS" → "ALBUMS" → "SONGS" → "PODCASTS" → "GENRES" → "COMPOSERS" → "AUDIOBOOKS"</p> <p>STEP 3 Press  to select the desired play mode.</p> <p>513</p> <p>Interior features</p>



See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 513.

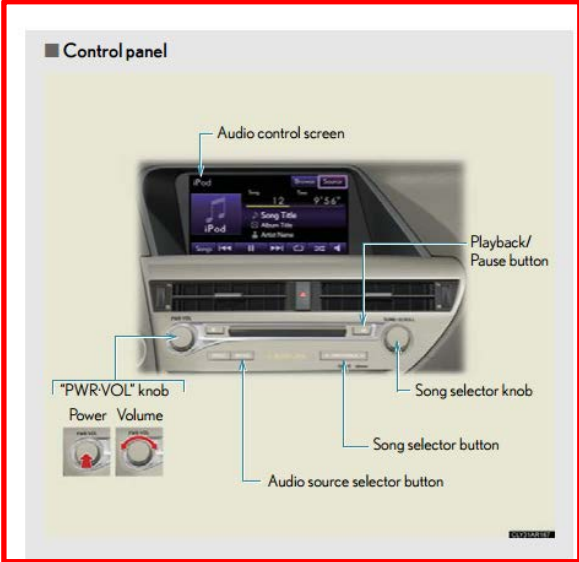
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <p>■ iPod problems</p> <p>To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it. For instructions on how to reset your iPod, refer to your iPod Owner's Manual.</p> <p>■ Error messages</p> <p>"Connection error. Please consult your Owner's Manual for instructions on how to connect the iPod.":</p> <p>This indicates a problem in the iPod or its connection.</p> <p>"There are no songs available for playback. Please load compatible media to your iPod.":</p> <p>This indicates that there is no music data in the iPod.</p> <p>■ Compatible models</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>● Made for</p> <ul style="list-style-type: none"> • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p>400</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 514.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> </div> <p style="text-align: right; font-size: small;">515</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.</i></p>

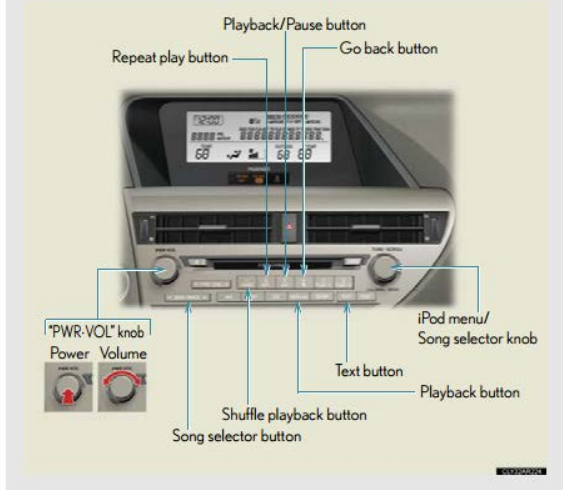
Claim	Support
	 <p>3-4. Using the audio system</p> <p>Adjusting sound quality and volume balance</p> <p>STEP 1 Press  to enter iPod menu mode.</p> <p>STEP 2 Pressing  changes sound modes. (->P. 552)</p> <p>■ About iPod</p> <p>Made for  iPod  iPhone</p> <ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>516</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</p>

Claim	Support
	 <p>3-3. Using the Lexus Display Audio system</p> <p>■ About iPod</p> <p>Made for iPod iPhone</p> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. ● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p>399</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</i></p>
[1B] a second connector electrically	Each device integration system of accused Lexus automobiles includes "a second connector electrically connectable to an after-market audio device external to the car stereo" because, as set forth below, the after-market audio device receives commands for controlling its operation from the car stereo, and because the car stereo receives information from the after-

Claim	Support
<p>connectable to an after-market audio device external to the car stereo;</p>	<p>market audio device regardless of the particular configuration of the device integration system. The second connector is a connector in the device integration system that is connectable to a port in the accused Lexus automobiles for mating via a cable with an after-market audio device external to the car stereo, such as an iPhone or other smart device playing MP3 files or streaming radio and other audio content from the Internet or from applications such as Pandora, iTunes, and/or Apple Music.</p> <div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <p>STEP 1</p>  <p>Pull up the lever to release the lock, and lift the armrest.</p> <p>STEP 2</p>  <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <p>394</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i></p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a control panel for the Lexus Display Audio system. It features an 'Audio control screen' at the top displaying 'iPod' and song information. Below the screen is a 'Playback/Pause button'. The panel includes a 'PWR-VOL' knob with 'Power' and 'Volume' sub-labels, a 'Song selector knob', and a 'Song selector button'. An 'Audio source selector button' is also present. A vertical label 'Interior features' is on the right side of the diagram area.</p></div> <p>395</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</p>

Claim	Support
	<div> <p>3-4. Using the audio system</p> <p>■ Control panel ▶ Type A</p> <p>511</p> </div> <p>3 Interior features</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

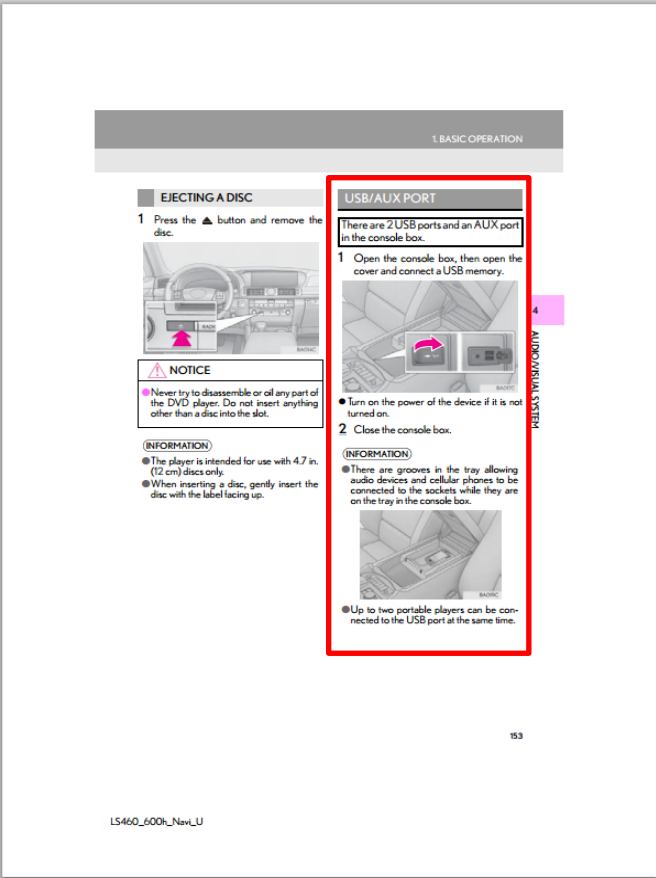
Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled with lines pointing to them:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back button'PWR-VOL' knob (Power and Volume)iPod menu/Song selector knobText buttonShuffle playback buttonSong selector buttonPlayback button</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

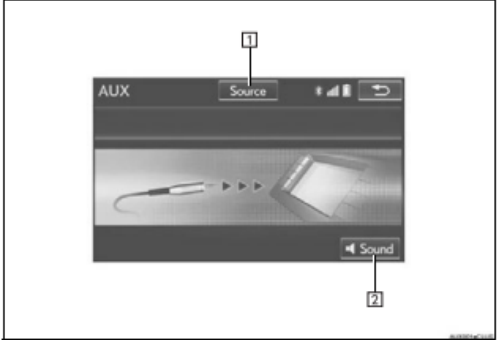
Claim	Support
	<div> <p>INTRODUCTION</p> </div> <div> <p>The Interface Kit allows you to play music from an iPod® through your vehicle's radio system. Reading this Owner's Manual ensures that you will get the most out of your audio experience. This manual explains how to integrate the radio with your iPod using the Interface Kit. Button locations and labeling will differ depending upon your vehicle's make and model.</p> </div> <div> <p>For new iPods, follow the iPod instructions for loading songs into it before connecting to the radio. The Interface Kit utilizes the Satellite Radio (SAT) controls of your radio's. Therefore, Satellite Radio controls are used to search for and play music from the iPod.</p> </div> <div> <p>NOTE: With the Interface Kit installed, Satellite Radio use is not possible.</p> </div> <div> <p>Apple and iPod are registered trademarks of Apple Inc.</p> </div> <div> <p>-4-</p> </div> <div> <p>See, e.g., Ex. C (Interface Kit for iPod) at 4.²</p> </div> <div> <p>What's Included</p> </div> <div> <p>The Interface Kit includes cable located in your vehicle's glove box.</p> </div> <div> <p>The image is a technical line drawing of a car's interior, specifically the glove box area. The glove box is open, and a cable with a connector is shown inside. The drawing also shows the dashboard, radio, and air vents.</p> </div>
<p>[1C] a third connector electrically</p>	<p>Each device integration system of the accused Lexus automobiles includes “a third connector electrically connectable to one or more auxiliary input sources external to the car stereo and the after-market audio device.” Specifically, accused Lexus automobiles are provided with an “auxiliary input jack” at one or more locations in the automobile, such as in the center</p>

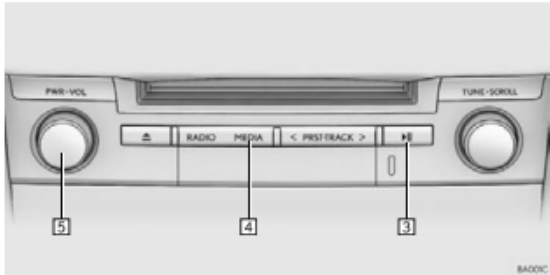
² Blitzsafe has produced Ex. C, Interface Kit for iPod, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0002232-2247. All pin-cites are to manual pages.

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>connectable to one or more auxiliary input sources external to the car stereo and the after-market audio device;</p>	<p>console. It is believed that the auxiliary input jack is connected to device integration system via one or more cables because the device integration system permits audio from a device connected to the auxiliary input jack to be played through the automobile's speakers.</p>  <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.³</p>



³ Blitzsafe has produced Ex. B, 2015 Lexus LS460 Navigation System Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0001770-2231. All pin-cites are to manual pages.

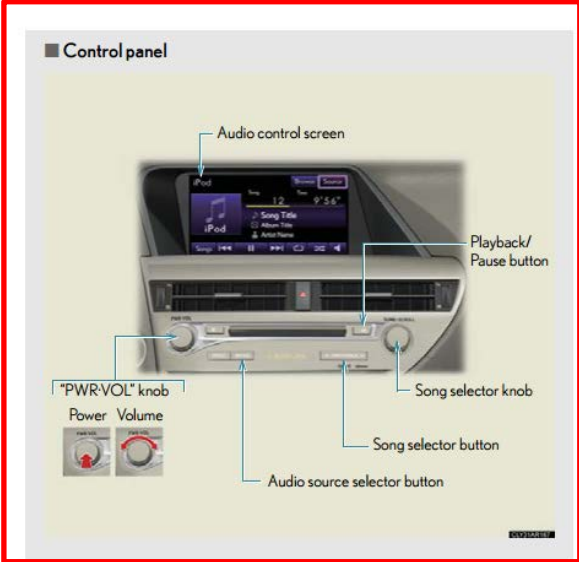
Claim	Support
	<div> <p>3. MEDIA OPERATION</p> <p>6. AUX</p> </div> <div> <p>OVERVIEW</p> </div> <div> <p>The AUX operation screen can be reached by the following methods:</p> <ul style="list-style-type: none"> ▶ Connecting a device to the AUX port (→P.153) ▶ Using the instrument panel <p>Press the "MEDIA" button to display the audio control screen.</p> <ul style="list-style-type: none"> ▶ Using the Remote Touch <p>Press the "MENU" button on the Remote Touch, then select "Media" to display the audio control screen.</p> </div> <div> <p>■ CONTROL SCREEN</p> </div> <div>  <p>The screenshot shows a digital display with the word 'AUX' at the top left. Below it is a 'Source' button with a right-pointing arrow. To the right of the 'Source' button are three small icons: a signal strength indicator, a battery level indicator, and a refresh/circular arrow icon. The main area of the screen displays a stylized image of a car's interior with a steering wheel and a central console. At the bottom right of the screen is a 'Sound' button with a speaker icon and a right-pointing arrow. A small box with the number '1' is positioned above the 'Source' button, and a small box with the number '2' is positioned below the 'Sound' button.</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>4 AUDIO/VISUAL SYSTEM</p> </div> <div> <p>203</p> </div> <div> <p>LS460_600h_Navi_U</p> </div> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 203.</p>

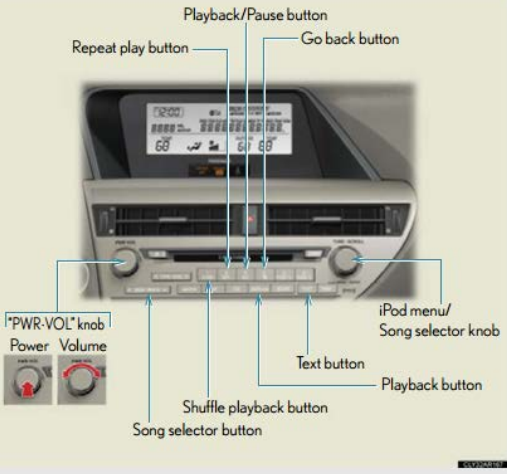
Claim	Support												
	<div> <p>3. MEDIA OPERATION</p> </div> <div> <p>■ CONTROL PANEL</p> </div> <div>  <p>The diagram shows a car's audio control panel with the following callouts: 1 points to the 'MEDIA' button; 2 points to the 'RADIO' button; 3 points to the 'MUTE' button; 4 points to the 'PREVIOUS TRACK' button; and 5 points to the volume knob.</p> </div> <div> <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the audio source selection screen.</td> </tr> <tr> <td>2</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td>3</td> <td>Press to turn mute on/off.</td> </tr> <tr> <td>4</td> <td> <ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. </td> </tr> <tr> <td>5</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system. </td> </tr> </tbody> </table> </div> <div> <p>204</p> </div> <div> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 204.</p> </div>	No.	Function	1	Select to display the audio source selection screen.	2	Select to display the sound setting screen.	3	Press to turn mute on/off.	4	<ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. 	5	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system.
No.	Function												
1	Select to display the audio source selection screen.												
2	Select to display the sound setting screen.												
3	Press to turn mute on/off.												
4	<ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. 												
5	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system. 												

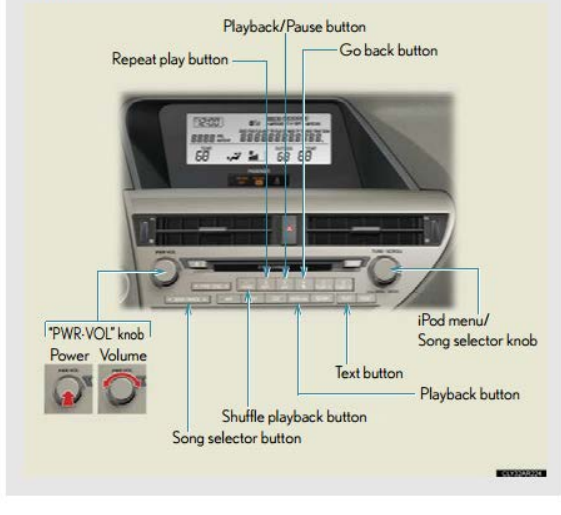
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>[1D] an interface connected between said first and second electrical connectors for channeling audio signals to the car stereo from the after-market audio device,</p>	<p>Each device integration system of the accused Lexus automobile includes, among other things, an interface for connecting the car stereo to external audio devices via a USB connector. The interface contained within the device integration system (which interface comprises software and hardware, including at least a microcontroller) is coupled to the USB connector (i.e., the second connector) as well as to at least one car stereo component via the first connector, such as via a circuit board connector, soldered connector, wired connector or software/virtual connector. The interface channels audio signals to the car stereo from the after-market audio device, as one of the primary functions of the infotainment system within accused Lexus automobiles is to permit audio stored on or streamed from an after-market audio device to play via the car stereo's speakers.</p>


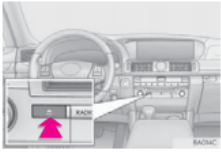
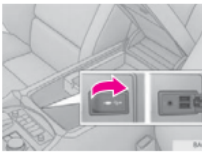
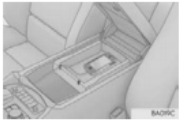
Claim	Support
	<p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <p>STEP 1</p>  <p>Pull up the lever to release the lock, and lift the armrest.</p> <p>STEP 2</p>  <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <p>394</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i></p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a car's audio control panel with an iPod connected. Labels with arrows point to the following components: 'Audio control screen' (the iPod screen), 'Playback/Pause button' (a button on the right side of the panel), 'Song selector knob' (a knob on the right side), 'Song selector button' (a button below the knob), 'Audio source selector button' (a button in the center), and '"PWR-VOL" knob' (a knob on the left side). Below the main panel, there are two smaller inset images labeled 'Power' and 'Volume'.</p></div> <p>395</p> <p>3 Interior features</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

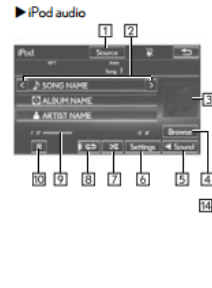
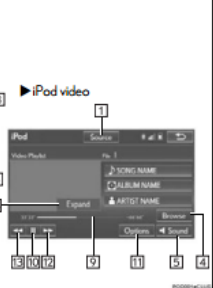
Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with the following labels and arrows pointing to the corresponding controls:</p><ul style="list-style-type: none">Repeat play buttonPlayback/Pause buttonGo back buttonShuffle playback buttonSong selector buttonText buttonPlayback buttoniPod menu/ Song selector knobPower Volume knob</div> <p>3</p> <p>Interior features</p> <p>511</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled with blue lines and text:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back button'PWR-VOL' knob (Power and Volume)iPod menu/Song selector knobText buttonShuffle playback buttonSong selector buttonPlayback button</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

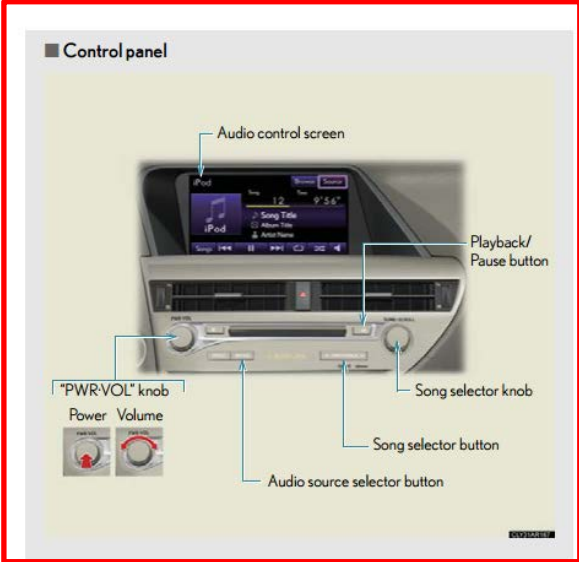
Claim	Support
	<div style="text-align: center; background-color: #cccccc; padding: 5px;">1. BASIC OPERATION</div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>EJECTING A DISC</p> <p>1 Press the  button and remove the disc.</p>  <p>NOTICE</p> <p>Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot.</p> <p>(INFORMATION)</p> <ul style="list-style-type: none"> The player is intended for use with 4.7 in. (12 cm) discs only. When inserting a disc, gently insert the disc with the label facing up. </div> <div style="width: 45%; border: 2px solid red; padding: 5px;"> <p>USB/AUX PORT</p> <p>There are 2 USB ports and an AUX port in the console box.</p> <p>1 Open the console box, then open the cover and connect a USB memory.</p>  <p>4 AUDIO/VISUAL SYSTEM</p> <ul style="list-style-type: none"> Turn on the power of the device if it is not turned on. <p>2 Close the console box.</p> <p>(INFORMATION)</p> <ul style="list-style-type: none"> There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box.  <ul style="list-style-type: none"> Up to two portable players can be connected to the USB port at the same time. </div> </div> <p style="text-align: center; margin-top: 20px;">153</p> <p style="text-align: left; margin-top: 20px;">LS460_600h_Navi_U</p>

See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">4. iPod</p> <p>OVERVIEW</p> <p>The iPod operation screen can be reached by the following methods:</p> <ul style="list-style-type: none"> ▶ Connecting an iPod (→P. 153) ▶ Using the instrument panel <p>Press the "MEDIA" button to display the audio control screen.</p> <ul style="list-style-type: none"> ▶ Using the Remote Touch <p>Press the "MENU" button on the Remote Touch, then select "Media" to display the audio control screen.</p> <p>CONTROL SCREEN</p> <div style="display: flex; justify-content: space-around;"> <div> <p>▶ iPod audio</p>  </div> <div> <p>▶ iPod video</p>  </div> </div> <p style="text-align: right; margin-top: 20px;">191</p> <p style="text-align: left; margin-top: 20px;">LS460_600h_Navi_U</p> </div> <div style="position: absolute; left: 515px; top: 385px; writing-mode: vertical-rl; transform: rotate(180deg);"> <p>4 AUDIO/VISUAL SYSTEM</p> </div>

See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 191.

Claim	Support
<p>[1E] said interface including a microcontroller in electrical communication with said first and second electrical connectors, said microcontroller pre-programmed to execute:</p>	<p>The interface of each device integration system of the accused Lexus automobiles includes one or more microcontrollers in electrical communication with the first and second electrical connectors for controlling various operations of the infotainment system, such as the radio, display, and interface operations. The microcontroller of the interface executes code to perform various interface functions and is, thus, “pre-programmed” to perform these functions. It is believed that this code is stored in onboard memory modules, and/or is contained within firmware in the microcontroller or elsewhere in the interface.</p>

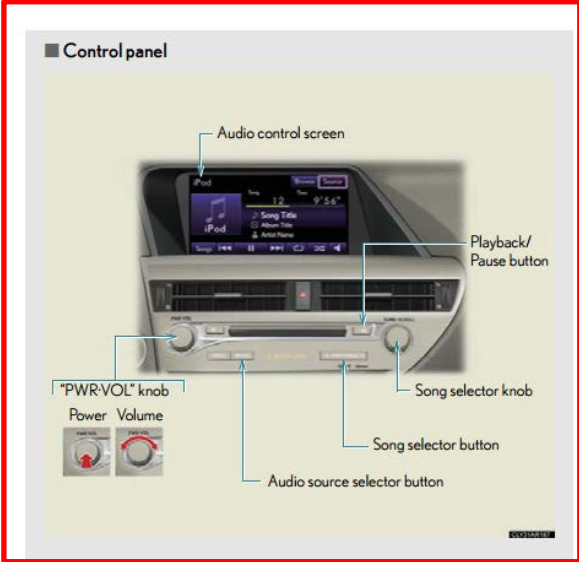
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a control panel for the Lexus Display Audio system. It features an 'Audio control screen' at the top displaying 'iPod' and song information. Below the screen is a 'Playback/Pause button'. On the left side, there is a '"PWR-VOL" knob' with 'Power' and 'Volume' indicators. On the right side, there is a 'Song selector knob' and a 'Song selector button'. At the bottom center, there is an 'Audio source selector button'. The entire diagram is enclosed in a red rectangular border.</p></div> <p>395</p> <p>3</p> <p>Interior features</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

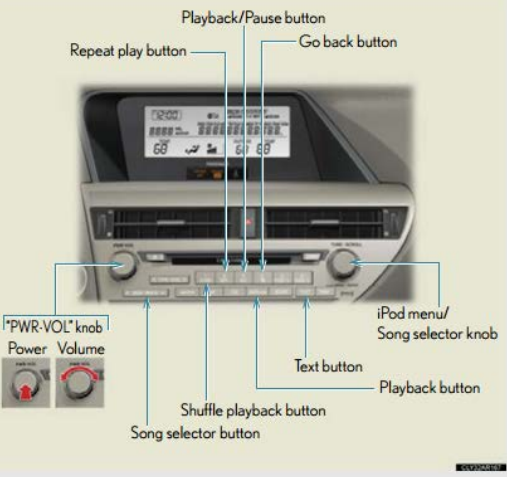
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Control panel ▶ Type A</p> </div> <p style="text-align: right; margin-right: 20px;">3 Interior features</p> <p style="text-align: right;">511</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

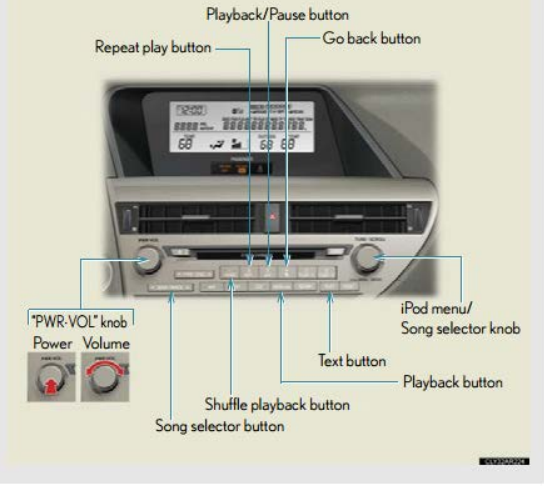
Claim	Support
	<div> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner’s Manual) at 512.</i></p>
<p>[1F] a first pre-programmed code portion for</p>	<p>The interface of each device integration system of the accused Lexus automobiles is pre-programmed to execute “a first pre-programmed code portion for remotely controlling the after-market audio device using the car stereo by receiving a control command from the car stereo through said first connector in a format incompatible with the after-market audio device,</p>


Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

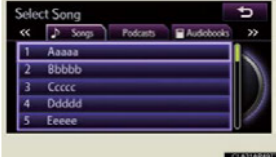





Claim	Support
<p>remotely controlling the after-market audio device using the car stereo by receiving a control command from the car stereo through said first connector in a format incompatible with the after-market audio device, processing the received control command into a formatted command compatible with the after-market audio device, and transmitting the formatted command to the after-market audio device through said second connector for</p>	<p>processing the received control command into a formatted command compatible with the after-market audio device, and transmitting the formatted command to the after-market audio device through said second connector for execution by the after-market audio device.” More specifically, once connected, commands are received from the car stereo and channeled through the first connector to the interface (including at least a microcontroller), where they are processed and converted using pre-programmed software from a format understandable and compatible with the car stereo and associated Lexus protocols (i.e., a format incompatible with the after-market audio device) into formatted commands that are compatible with the after-market audio device (i.e., converted into USB and device-specific protocols understandable to the after-market audio device). These formatted commands are then transmitted to the after-market audio device via the USB connector (i.e., the second connector). The formatted commands are then executed by the after-market audio device. The microcontroller of the interface executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard memory modules, and/or is contained within firmware elsewhere in the interface (such as within the microcontroller itself).</p>

Claim	Support
execution by the after-market audio device;	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a Lexus audio control panel with an iPod connected. Labels with arrows point to the following components: 'Audio control screen' (the iPod screen), 'Playback/Pause button' (a button on the right side of the panel), 'Song selector knob' (a knob on the right side), 'Song selector button' (a button below the knob), 'Audio source selector button' (a button in the center), and '"PWR-VOL" knob' (a knob on the left side). Below the main panel, there are two smaller inset images labeled 'Power' and 'Volume' with their respective knobs.</p></div> <p>3</p> <p>Interior features</p> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>








Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with several labeled components: Playback/Pause button, Repeat play button, Go back button, iPod menu/Song selector knob, Text button, Playback button, Shuffle playback button, Song selector button, and PWR-VOL* knob (Power and Volume). The entire diagram is enclosed in a red rectangular border.</p></div> <p>3</p> <p>Interior features</p> <p>511</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

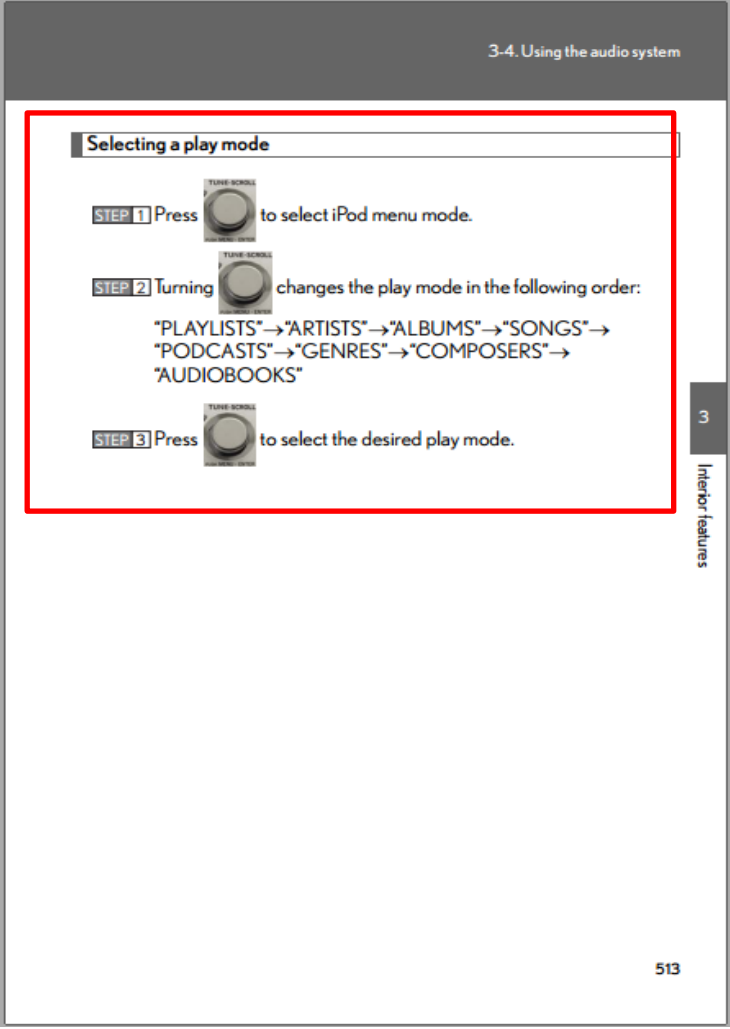



Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>▶ Type B</p><p>The diagram shows a car's infotainment system interface. It features a central display screen showing '12:00' and '68'. Below the screen is a control panel with several buttons and knobs. Labels with arrows point to the following components: 'Repeat play button' (top left), 'Playback/Pause button' (top center), 'Go back button' (top right), 'iPod menu/ Song selector knob' (right side), 'Text button' (bottom center), 'Playback button' (bottom right), 'Shuffle playback button' (bottom left), 'Song selector button' (bottom left), and a 'PWR-VOL' knob with 'Power' and 'Volume' sub-labels (left side). A small 'SONY' logo is visible in the bottom right corner of the diagram area.</p></div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>




Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 1px solid red; padding: 5px;"> <p>Selecting a play mode</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired play mode by selecting the "Playlists", "Artists", "Albums", "Songs", "Podcasts", "Audio books", "Genres" or "Composers" tabs.</p>  </div> <p>Selecting, fast-forwarding and reversing songs</p> <ul style="list-style-type: none"> ■ Selecting one song at a time Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired song. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep. ■ Selecting a song from audio control screen Select  or . To fast-forward or reverse, select and hold  or  until you hear a beep. ■ Selecting a song from the list <p>STEP 1 Select "Songs" on the screen.</p> <p>STEP 2 Select the desired song.</p>  </div> <p style="text-align: right; margin-top: 10px;">397</p>












See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 397.

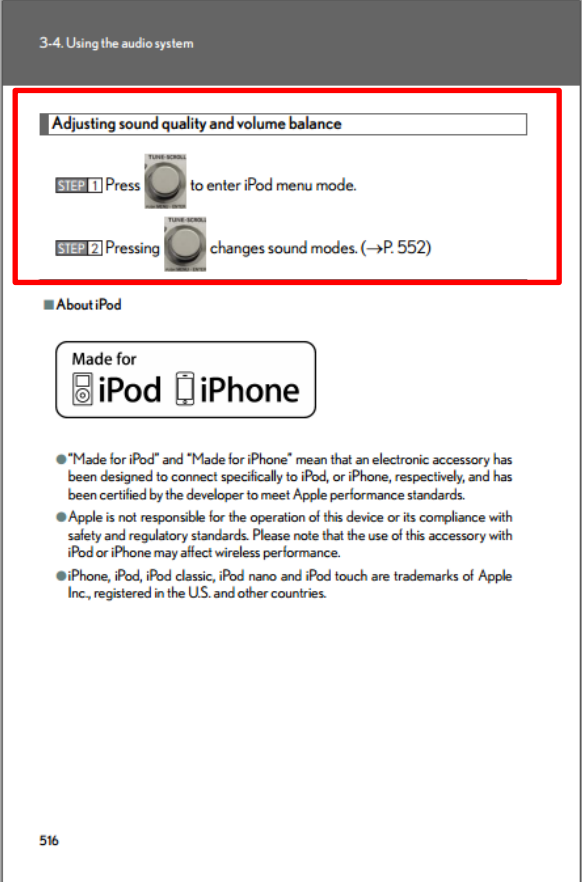




Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Shuffle play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Playing the songs in shuffle<li>↓ : Playing the albums in the iPod in shuffle<li>↓ : Off<p>When a large number of songs is stored in an iPod, shuffle selection may take time.</p><p>Repeat play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Repeating the song<li>↓ : Off</div> <p>398</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 398.</p>


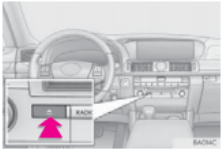

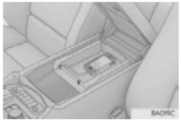
Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting a play mode</p> <p>STEP 1 Press  to select iPod menu mode.</p> <p>STEP 2 Turning  changes the play mode in the following order: "PLAYLISTS" → "ARTISTS" → "ALBUMS" → "SONGS" → "PODCASTS" → "GENRES" → "COMPOSERS" → "AUDIOBOOKS"</p> <p>STEP 3 Press  to select the desired play mode.</p> <p>513</p> <p>Interior features</p>

See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 513.











Claim	Support																																														
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Play mode list</p> <table border="1"> <thead> <tr> <th>Play mode</th> <th>First selection</th> <th>Second selection</th> <th>Third selection</th> <th>Fourth selection</th> </tr> </thead> <tbody> <tr> <td>*PLAYLISTS*</td> <td>Playlists select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*ARTISTS*</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*ALBUMS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*SONGS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>*PODCASTS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*GENRES*</td> <td>Genre select</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> </tr> <tr> <td>*COMPOSERS*</td> <td>Composers select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*AUDIOBOOKS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>■ Selecting a list</p> <p>STEP 1 Turn  to display the first selection list.</p> <p>STEP 2 Press  to select the desired item.</p> <p>Pressing the knob changes to the second selection list.</p> <p>STEP 3 Repeat the same procedure to select the desired item.</p> <p>To return to the previous selection list, select "GO BACK" or press .</p> <p>514</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 514.</i></p> </div>		Play mode	First selection	Second selection	Third selection	Fourth selection	*PLAYLISTS*	Playlists select	Songs select	-	-	*ARTISTS*	Artists select	Albums select	Songs select	-	*ALBUMS*	Albums select	Songs select	-	-	*SONGS*	Songs select	-	-	-	*PODCASTS*	Albums select	Songs select	-	-	*GENRES*	Genre select	Artists select	Albums select	Songs select	*COMPOSERS*	Composers select	Albums select	Songs select	-	*AUDIOBOOKS*	Songs select	-	-	-
Play mode	First selection	Second selection	Third selection	Fourth selection																																											
PLAYLISTS	Playlists select	Songs select	-	-																																											
ARTISTS	Artists select	Albums select	Songs select	-																																											
ALBUMS	Albums select	Songs select	-	-																																											
SONGS	Songs select	-	-	-																																											
PODCASTS	Albums select	Songs select	-	-																																											
GENRES	Genre select	Artists select	Albums select	Songs select																																											
COMPOSERS	Composers select	Albums select	Songs select	-																																											
AUDIOBOOKS	Songs select	-	-	-																																											

Claim	Support
	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> </div> <p style="text-align: right; font-size: small;">515</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.</i></p>


Claim	Support
	 <p>3-4. Using the audio system</p> <p>Adjusting sound quality and volume balance</p> <p>STEP 1 Press  to enter iPod menu mode.</p> <p>STEP 2 Pressing  changes sound modes. (->P. 552)</p> <p>■ About iPod</p> <p>Made for  iPod  iPhone</p> <ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>516</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</p>

Claim	Support
	<div style="text-align: center; background-color: #cccccc; padding: 5px;">1. BASIC OPERATION</div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="width: 45%;"> <p>EJECTING A DISC</p> <p>1 Press the  button and remove the disc.</p>  <p>NOTICE</p> <ul style="list-style-type: none"> Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot. <p>(INFORMATION)</p> <ul style="list-style-type: none"> The player is intended for use with 4.7 in. (12 cm) discs only. When inserting a disc, gently insert the disc with the label facing up. </div> <div style="width: 45%; border: 2px solid red; padding: 5px;"> <p>USB/AUX PORT</p> <p>There are 2 USB ports and an AUX port in the console box.</p> <p>1 Open the console box, then open the cover and connect a USB memory.</p>  <p>4 AUDIO/VISUAL SYSTEM</p> <ul style="list-style-type: none"> Turn on the power of the device if it is not turned on. <p>2 Close the console box.</p> <p>(INFORMATION)</p> <ul style="list-style-type: none"> There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box.  <ul style="list-style-type: none"> Up to two portable players can be connected to the USB port at the same time. </div> </div> <p style="text-align: center; margin-top: 20px;">153</p> <p style="text-align: left; margin-top: 20px;">LS460_600h_Navi_U</p>

See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.

Claim	Support
	<p>514</p> <p>3-4. Using the audio system</p> <div style="border: 2px solid red;"><p>Selecting songs</p><p>Turn  or press ">" or "<" on  to select the desired song.</p><p>Playing and pausing songs</p><p>To play or pause a song, press .</p><p>Fast-forwarding and reversing songs</p><p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p><p>Shuffle playback</p><ul style="list-style-type: none"><li>■ Playing songs from one playlist or album in random order Press .<li>■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep.<p>To cancel, press  again.</p></div> <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p>515</p> <p>3-4. Using the audio system</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Interior features</p>







See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 191.

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <hr/> <p>■ About iPod</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; margin: 10px 0;"> <p>Made for</p>  <p>iPod iPhone</p> </div> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. <li style="border: 2px solid red; padding: 2px;">● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p style="text-align: right;">399</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</p>



Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div> <p>BASIC FUNCTIONS</p> </div> <div> <p>Resume Play</p> </div> <div> <p>The "Resume Play" feature allows the iPod to play the current musical selection (Play queue) when connecting to the Interface Kit. If the play queue was empty, the Interface Kit plays the entire iPod.</p> </div> <div> <p>Music Play</p> </div> <div> <p>Select songs in the play queue and continue to play repeatedly until another selection is made.</p> </div> <div> <p>Music Search</p> </div> <div> <p>The user can make media selections from the iPod from a preselected list of categories (Playlist, Artist, Album, Genre, Podcast and Audiobook). The radio SAT controls coincide with similar functions on the iPod.</p> </div> <div> <p>Text Display</p> </div> <div> <p>The interface utilizes the same text fields provided for the satellite radio. For each song, the radio displays a track number, artist name and song title information. This corresponds to the SAT channel number, artist name and song title respectively.</p> </div> <div> <p>Connecting/Disconnecting iPod</p> </div> <div> <p>When the iPod is properly connected to the interface:</p> </div> <div> <ul style="list-style-type: none"> • iPod Synchronized: On establishing connection with the iPod, an "accessory attached" symbol will appear as illustrated below. </div> <div> </div> <div> <p>All of these displays are subject to change. These are only examples.</p> </div> <div> <ul style="list-style-type: none"> • "Hello iPod" is shown in the radio's display. • Radio controlled: The iPod can only be operated using your vehicle's SAT system controls. Once connected to the interface, the iPod's controls (click wheel, etc.) no longer function. • Charging iPod: The vehicle charges the iPod battery when the ignition switch is in the ON or ACC position. • iPod battery is discharged: If the iPod is in a fully discharged state, it may not be playable for a short period. "iPod Charge" is displayed on the radio if the iPod is in a low battery state. </div> <div> <p>When the iPod is disconnected from the interface:</p> </div> <div> <ul style="list-style-type: none"> • "No iPod" is shown in the radio's display. • The radio remains in the SAT mode. </div> <div> <p>NOTE: It is highly recommended to turn the vehicle's ignition switch (or radio's power) OFF before disconnecting the iPod from the radio.</p> </div> <div> <p>-6-</p> </div> <div> <p>See, e.g., Ex. C (Interface Kit for iPod) at 6.</p> </div>




Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>iPod CONTROL - BASIC</p> <p>Song UP/DOWN</p> <ul style="list-style-type: none"> <p>TUNE-FILE KNOB</p> <p>Use the TUNE-FILE knob to skip to the next or previous song. Rotate the knob 1 click to the right or left to skip to the next song or previous one respectively. Rotate the knob "N" steps to the right or left to skip skips to next "Nth" song or previous "Nth" song (including the current song).</p>  <p>REMOTE CONTROL (Steering Wheel Switches)</p> <p>Use the Track UP/DOWN button to skip to the next or previous song. Press and release ^ button to skip to the next song. Press and release v button to skip to the previous song.</p>   <p>Fast-Forward/Rewind</p> <p>Move quickly through a song by pressing the ^ or v button during playback.</p> <p>* The Fast-Forward/Rewind operation has the same behavior as the iPod 'click wheel'.</p> <p>Press ^ to fast-forward through a song. Press ^ again to stop. Press v to rewind a song. Press v again to stop.</p>  <p>Random Play [Shuffle ON/OFF]</p> <p>Shuffle songs within the "Now Playing" list of the iPod: Play songs on the iPod in random order within the current "Now Playing" list using the SCAN button. After playing the last song in the Playlist randomly, Shuffle begins playing back in a new random order. Press and hold the SCAN button (more than 1 second) to turn shuffle ON. Press and hold the SCAN button (more than 1 second) again to turn shuffle OFF.</p>  <p>Shuffle All</p> <p>Press the Preset 5 to shuffle all the songs on the iPod. Press and hold the SCAN button to cancel.</p>  </div> <p style="text-align: center;">-8-</p> <p>See, e.g., Ex. C (Interface Kit for iPod) at 8.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>SCAN</p> <p>Press and release the SCAN button to preview 10 seconds of each song on the iPod. When a desired song is heard, press and release the SCAN button (before 10 seconds has been played) to play the entire song. The SCAN function is canceled.</p>  <p>In addition, SCAN is also usable within the current "Now Playing" list. If it is selected as described above, while in a "Now Playing" list (Playlist, Album, etc.), then only the songs in that list are scanned.</p> </div> <div style="width: 48%;"> <p>MUSIC SEARCH</p> <p>The radio recognizes the following categories in the iPod: Playlist, Artist, Album, Genre, Podcast and Audiobook. The user can select one of the following two methods to choose songs from these categories.</p> <p>Method 1 (Category Search)</p> <p>The user can do a music search in any of the following categories: Playlist, Artist, Album, Genre, Podcast and Audiobook. The buttons TYPE:FOLDER UP/DOWN, Preset 6 and the TUNE:FILE knob are used together to implement the search function through the following steps:</p> <p>a. Category Browsing</p> <p>The TYPE:FOLDER UP/DOWN button is used for category browsing. Press the TYPE:FOLDER button and the list of categories, Playlist ↔ Artist ↔ Album ↔ Genre ↔ Podcast ↔ Audiobook is shown in the radio's display. Pressing ^, shifts the selection list to the right and v shifts the selection list to the left.</p>  </div> </div> <p style="text-align: center;">-9-</p> </div> <p><i>See, e.g.,</i> Ex. C (Interface Kit for iPod) at 9.</p>

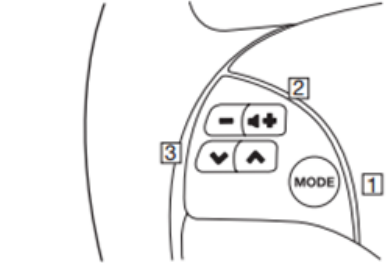



Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>b. Category Selection</p> <p>Preset 6 [Enter] button is used to make the selection after category browsing. Press the Preset 6 button to select the name of the last item displayed in the selected category (Playlist / Artist / Album / Genre/ Podcast / Audiobook).</p>  <p>NOTE: If this is the first search after connecting the iPod, the first item in the selected category is shown.</p> <p>c. Browsing the Items in the Selected Category</p> <p>If the user chooses to play all the songs (beginning with the first one) in the last displayed category (last displayed Playlist / Artist / Album / Genre / Podcast / Audiobook), this step can be skipped. Go to the next step.</p>  <p>The TUNE-FILE knob is used for browsing the items in the selected category. Rotate the TUNE-FILE knob right/left to display the name of next/previous item in the selected category.</p> <p>d. Select Songs</p> <p>Preset 6 is used to make a selection when the desired item in the selected category is shown in the radio's display. Press the Preset 6 button to play songs from the displayed item in the selected category. This item becomes the current "Now Playing" list of the iPod, the song track is displayed on the radio and the search is completed.</p>  </div> <p style="text-align: center;">-10-</p> <p>See, e.g., Ex. C (Interface Kit for iPod) at 10.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

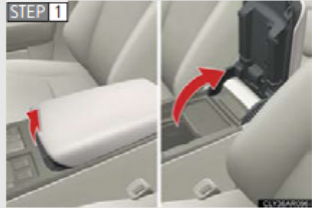

Claim	Support																							
	<div style="border: 1px solid black; padding: 10px;"> <p>Method 2 (Quick Search)</p> <p>The user can do a music search in the categories: Playlist, Artist, Album and Podcast. Presets 1-4 are assigned to each of these 4 categories. Category browsing is not needed and selection is made directly from the Presets. Presets 1-4, Preset 6 and TUNE are used together as follows.</p> <p>a. Preset Assignment</p> <table border="1" style="margin-left: 20px;"> <thead> <tr style="background-color: #ffff00;"> <th>Button</th> <th>Display</th> <th>Browse</th> </tr> </thead> <tbody> <tr> <td>Preset 1</td> <td>Playlist</td> <td>Playlist names</td> </tr> <tr> <td>Preset 2</td> <td>Artist</td> <td>Artist names</td> </tr> <tr> <td>Preset 3</td> <td>Album</td> <td>Album names</td> </tr> <tr> <td>Preset 4</td> <td>Podcast</td> <td>Podcast episodes</td> </tr> </tbody> </table> <p>b. Category Selection</p> <p>The last item displayed in the category will be displayed on the radio using Presets 1-4. Press Preset 1 to display the name of the last displayed Playlist on the radio. Press Preset 2 to display the name of the last displayed Artist. Press Preset 3 to display the name of the last displayed Album. Press Preset 4 to display the last displayed Podcast episode.</p> <div style="margin-left: 20px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">SCAN</td> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">4</td> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">6</td> <td style="padding: 2px 5px;">TEXT</td> </tr> </table> </div> <p style="text-align: right; margin-top: 10px;">-11-</p> </div> <p><i>See, e.g., Ex. C (Interface Kit for iPod) at 11.</i></p>	Button	Display	Browse	Preset 1	Playlist	Playlist names	Preset 2	Artist	Artist names	Preset 3	Album	Album names	Preset 4	Podcast	Podcast episodes	SCAN	1	2	3	4	5	6	TEXT
Button	Display	Browse																						
Preset 1	Playlist	Playlist names																						
Preset 2	Artist	Artist names																						
Preset 3	Album	Album names																						
Preset 4	Podcast	Podcast episodes																						
SCAN	1	2	3	4	5	6	TEXT																	


Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

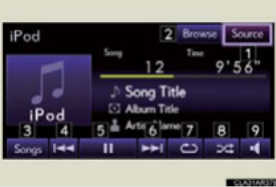

Claim	Support
	<p>REMOTE CONTROL (Steering Wheel Switches)</p>  <p>The radio system can be operated using the remote control located on the steering wheel.</p> <ul style="list-style-type: none"> 1  Power ON/Change mode: Press Power OFF: Press and hold 2  Volume 3  Playback mode: Track UP/DOWN Search mode: Sub Category select (selected by Preset 6) <p style="text-align: center;">-12-</p> <p><i>See, e.g., Ex. C (Interface Kit for iPod) at 12.</i></p>
<p>[1G] a second pre-programmed code portion for receiving data from the after-market audio device through said second</p>	<p>The interface of each device integration system of the accused Lexus automobiles is pre-programmed to execute “a second pre-programmed code portion for receiving data from the after-market audio device through said second connector in a format incompatible with the car stereo, processing the received data into formatted data compatible with the car stereo, and transmitting the formatted data to the car stereo through said first connector for display by the car stereo.” More specifically, in response to one or more formatted commands executed by the after-market audio device, the after-market audio device transmits data (such as audio, video, songs, album, track, cover art, genre and artist information) to the device integration system via the USB connector (i.e., the second connector). The data is then received by the interface of the device integration system (including the microcontroller), where the data is processed and converted using pre-programmed</p>

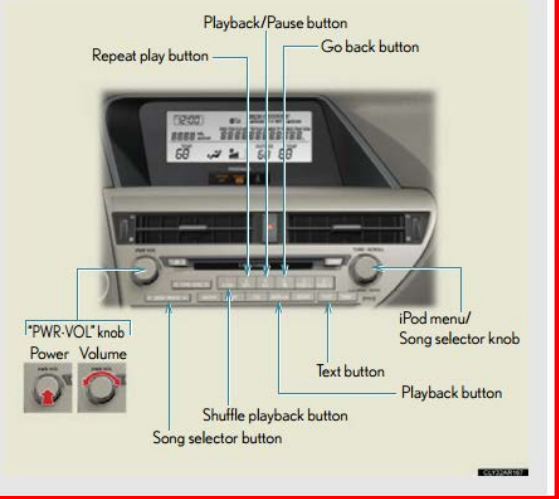
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

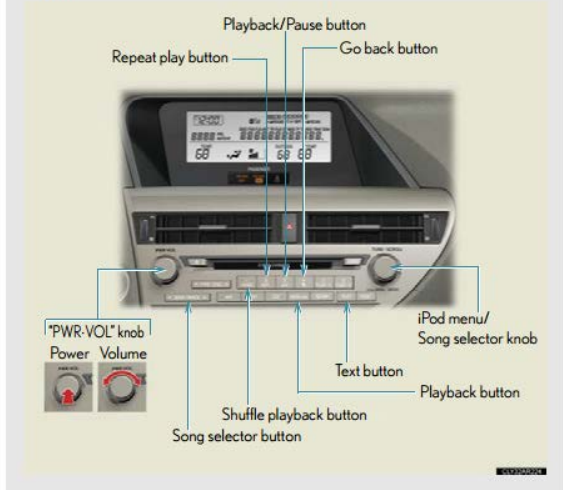
Claim	Support
<p>connector in a format incompatible with the car stereo, processing the received data into formatted data compatible with the car stereo, and transmitting the formatted data to the car stereo through said first connector for display by the car stereo; and</p>	<p>software from a format incompatible with the car stereo and understandable and compatible with the after-market audio device (i.e., USB and device-specific protocols understandable to the after-market audio device) into formatted data compatible with the car stereo and associated Lexus protocols. The formatted data is then transmitted by the interface (including the microcontroller) to the car stereo via the first connector for display by the car stereo. The microcontroller of the interface executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard memory modules, and/or is contained within firmware elsewhere in the interface (such as within the microcontroller itself).</p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <p>STEP 1</p>  <p>Pull up the lever to release the lock, and lift the armrest.</p> <p>STEP 2</p>  <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <p>394</p>

Claim	Support
	<p><i>See, e.g.,</i> Ex. A (2015 Lexus RX350 Owner’s Manual) at 394.</p> <div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Control panel</p>  <p>Audio control screen</p> <p>Playback/Pause button</p> <p>Song selector knob</p> <p>Song selector button</p> <p>Audio source selector button</p> <p>'PWR/VOL' knob</p> <p>Power</p> <p>Volume</p> </div> <p style="text-align: center;">3</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Interior features</p> <p style="text-align: right;">395</p> </div> <p><i>See, e.g.,</i> Ex. A (2015 Lexus RX350 Owner’s Manual) at 395.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with the following labels and arrows pointing to specific controls:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back buttonShuffle playback buttonSong selector buttonText buttonPlayback buttoniPod menu/ Song selector knobPower Volume knob</div> <p>3</p> <p>Interior features</p> <p>511</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>


Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled with lines pointing to them: Playback/Pause button, Repeat play button, Go back button, iPod menu/Song selector knob, Text button, Playback button, Shuffle playback button, Song selector button, and 'PWR-VOL' knob (with sub-labels Power and Volume). The entire diagram is enclosed in a red rectangular border.</p></div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div> <p>DISPLAY AND MESSAGES</p> </div> <div> <p>Song Number</p> </div> <div> <ul style="list-style-type: none"> • Song number is assigned to SAT Channel number. • Song number can be viewed by pressing the TEXT button if it is not currently being shown in the radio's display. • When using the rotary Tune knob to skip songs, the song number change is shown in the radio's display. The song numbers are valid up to 100. Once the song number reaches 100, the next press of the UP/DOWN button rolls the song number back to 1 although the song itself is number 101. </div> <div> <p>Track Name</p> </div> <div> <ul style="list-style-type: none"> • Track name is assigned to SAT Song title. </div> <div> <p>Artist Name</p> </div> <div> <ul style="list-style-type: none"> • Artist name is assigned to SAT Artist name. <p>TEXT button is used to display the above messages. Press the TEXT button to cycle the Track Number, Track Name and Artist Name in the radio's display. The maximum displayable characters allowed by the radio will be displayed. The radio may display incomplete names if they include more characters than the display is capable of showing.</p> </div> <div> </div> <div> <p>-13-</p> </div> <div> <p>See, e.g., Ex. C (Interface Kit for iPod) at 13.</p> </div>
<p>[1H] a third pre-programmed code portion for switching to one or more auxiliary input sources connected to</p>	<p>The interface of each device integration system of the accused Lexus automobiles is pre-programmed to execute “a third pre-programmed code portion for switching to one or more auxiliary input sources connected to said third electrical connector.” The microcontroller of the interface executes pre-programmed code to perform at least a portion of this function. It is believed that this code is stored in onboard flash or other memory modules, and/or is contained within firmware elsewhere in the interface (such as within the microcontroller itself).</p>

Claim	Support
<p>said third electrical connector.</p>	<div style="text-align: center;"> </div> <p>The screenshot shows a manual page titled "1. BASIC OPERATION" with a sub-section "4. AUDIO/VISUAL SYSTEM". The "USB/AUX PORT" section is highlighted with a red box and contains the following text:</p> <p>There are 2 USB ports and an AUX port in the console box.</p> <ol style="list-style-type: none"> 1 Open the console box, then open the cover and connect a USB memory. <p>NOTICE: Turn on the power of the device if it is not turned on.</p> <ol style="list-style-type: none"> 2 Close the console box. <p>INFORMATION: There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box.</p> <p>Up to two portable players can be connected to the USB port at the same time.</p> <p>Other sections visible include "EJECTING A DISC" with instructions to press the eject button and a "NOTICE" warning against disassembling the DVD player.</p> <p>Page number: 153 File name: LS460_600h_Navi_U</p>

See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.












Claim	Support
	<div> <p>3. MEDIA OPERATION 6. AUX</p> </div> <div> <p>OVERVIEW</p> </div> <div> <p>The AUX operation screen can be reached by the following methods:</p> <ul style="list-style-type: none"> ▶ Connecting a device to the AUX port (→P. 153) ▶ Using the instrument panel Press the "MEDIA" button to display the audio control screen. ▶ Using the Remote Touch Press the "MENU" button on the Remote Touch, then select "Media" to display the audio control screen. </div> <div> <p>CONTROL SCREEN</p>  <p>The screenshot shows a digital display with the word 'AUX' at the top left. Below it, there is a 'Source' button with a right-pointing arrow. At the bottom right, there is a 'Sound' button with a speaker icon. A vertical label 'AUDIO/VISUAL SYSTEM' is positioned to the right of the screen. A small number '4' is highlighted in a pink box to the right of the overview text.</p> </div> <div> <p>203</p> </div> <div> <p>LS460_600h_Nav_U</p> </div> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 203.</p>

Claim	Support
<p>2. The apparatus of claim 1, wherein the car stereo further comprises an Original Equipment Manufacturer (OEM) car stereo connected to said first electrical connector.</p>	<p>It is believed that some portions of the device integration system of the accused Lexus automobiles are manufactured for Lexus by Original Equipment Manufacturers such as Fujitsu.</p>
<p>4. The apparatus of claim 1, wherein the after-market audio device further comprises a CD player, CD changer, MP3 player, Digital Audio Broadcast (DAB) receiver, or satellite receiver connected to said second electrical connector.</p>	<p>Each device integration system of the accused Lexus automobiles allows for the connection of at least MP3 players (iPods), iPhones and other smart devices.</p>


Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <p>■ iPod problems</p> <p>To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it. For instructions on how to reset your iPod, refer to your iPod Owner's Manual.</p> <p>■ Error messages</p> <p>"Connection error. Please consult your Owner's Manual for instructions on how to connect the iPod.":</p> <p>This indicates a problem in the iPod or its connection.</p> <p>"There are no songs available for playback. Please load compatible media to your iPod.":</p> <p>This indicates that there is no music data in the iPod.</p> <p>■ Compatible models</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>● Made for</p> <ul style="list-style-type: none"> • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p>400</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>5. The apparatus of claim 1, wherein said interface further comprises a plug-and-play mode for automatically detecting a device type of the after-market audio device connected to said second electrical connector and integrating the after-market audio device based upon the device type.</p>	<p>Each device integration system of the accused Lexus automobiles includes a plug-and-play module that automatically detects whether an iPhone/iPod or Android-powered device is attached to the USB port. For example, through Apple’s MFi Program, third party-accessories, such as the device integration systems of the accused Lexus automobiles, are licensed to connect electronically to Apple devices such as the iPhone and iPod. <i>See, e.g.</i>, https://mfi.apple.com/MFiWeb/getFAQ.action. Apple provides a framework for communications between Apple devices and third-party accessories, such as the device integration systems of the accused Lexus automobiles, which includes the requirement that the third-party accessory includes a chip to decode communications between the accessory and a device that has identified itself as an iPod or iPhone. <i>See, e.g.</i>, http://www.objectpartners.com/2010/09/14/communicating-with-external-devices-from-the-iphone-and-ipad/.</p> <p>Similarly, Android provides tools for connecting Android-powered devices to third-party accessories using a USB connection, including a means for providing a notification that an Android-powered device is connected to the accessory. <i>See, e.g.</i>, http://developer.android.com/guide/topics/connectivity/usb/accessory.html.</p> <p>The specific manner in which the interface implements the plug-and-play mode of this claim will be ascertainable by reviewing the source code of the interface in the accused Lexus automobiles.</p>

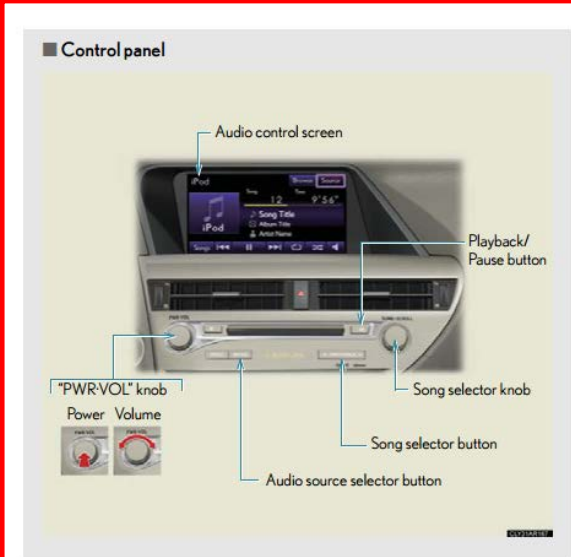
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">514</p> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on .</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> </div> <p style="text-align: right;">515</p> <p style="text-align: center;">3-4. Using the audio system</p> </div> <p><i>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 191.</i></p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

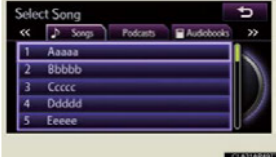





Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>BASIC FUNCTIONS</p> <p>Resume Play The "Resume Play" feature allows the iPod to play the current musical selection (Play queue) when connecting to the Interface Kit. If the play queue was empty, the Interface Kit plays the entire iPod.</p> <p>Music Play Select songs in the play queue and continue to play repeatedly until another selection is made.</p> <p>Music Search The user can make media selections from the iPod from a preselected list of categories (Playlist, Artist, Album, Genre, Podcast and Audiobook). The radio SAT controls coincide with similar functions on the iPod.</p> <p>Text Display The interface utilizes the same text fields provided for the satellite radio. For each song, the radio displays a track number, artist name and song title information. This corresponds to the SAT channel number, artist name and song title respectively.</p> </div> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Connecting/Disconnecting iPod When the iPod is properly connected to the interface:</p> <ul style="list-style-type: none"> • iPod Synchronized: On establishing connection with the iPod, an "accessory attached" symbol will appear as illustrated below. <div style="text-align: center;">  <p>All of these displays are subject to change. These are only examples.</p> </div> <ul style="list-style-type: none"> • "Hello iPod" is shown in the radio's display. • Radio controlled: The iPod can only be operated using your vehicle's SAT system controls. Once connected to the interface, the iPod's controls (click wheel, etc.) no longer function. • Charging iPod: The vehicle charges the iPod battery when the ignition switch is in the ON or ACC position. • iPod battery is discharged: If the iPod is in a fully discharged state, it may not be playable for a short period. "iPod Charge" is displayed on the radio if the iPod is in a low battery state. <p>When the iPod is disconnected from the interface:</p> <ul style="list-style-type: none"> • "No iPod" is shown in the radio's display. • The radio remains in the SAT mode. <p>NOTE: It is highly recommended to turn the vehicle's ignition switch (or radio's power) OFF before disconnecting the iPod from the radio.</p> <p style="text-align: center;">-6-</p> </div> <p>See, e.g., Ex. C (Interface Kit for iPod) at 6.</p>
<p>6. The apparatus of claim 1, wherein said interface generates a device presence</p>	<p>The interface of the device integration system of each accused Lexus automobile includes a device presence signal that "maintain[s] the car stereo in an operational state responsive to processed data and audio signals." Specifically, when an after-market audio device is plugged into the USB port that is connected to the USB connector in the device integration system (i.e., the second electrical connector), an iPod graphic appears indicating that a compatible device is connected and recognized. Once a compatible portable device is connected and recognized, the interface of the device integration system maintains the car stereo in a state responsive to processed data and audio signals from the portable device.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

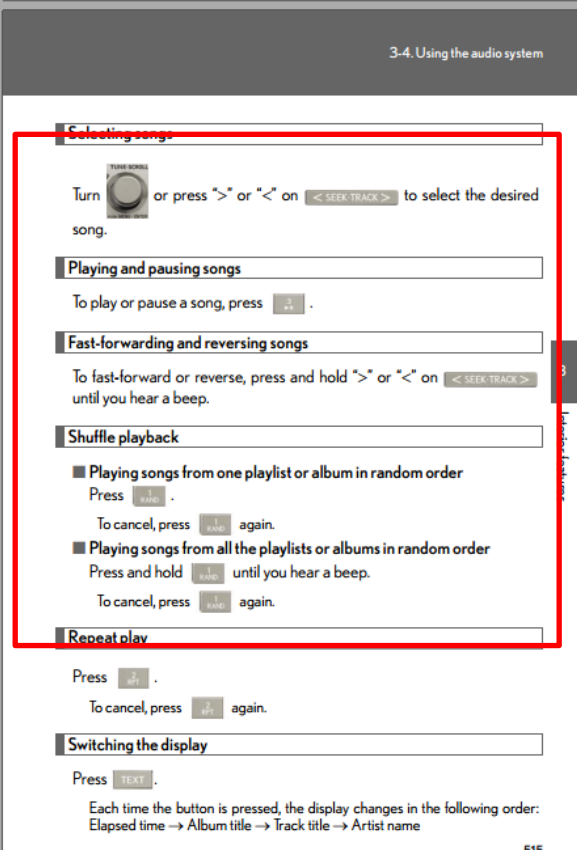











Claim	Support
signal for maintaining the car stereo in a state responsive to processed data and audio signals.	<p>The microcontroller of the interface executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard memory modules, and/or is contained within firmware elsewhere in the interface (such as within the microcontroller itself).</p> <p>The specific manner in which the interface implements the device presence signal of this claim will be ascertainable by reviewing the source code of the interface in the accused Lexus automobiles.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>■ Control panel</p>  </div> <p style="text-align: right; margin-top: 10px;">395</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</p>

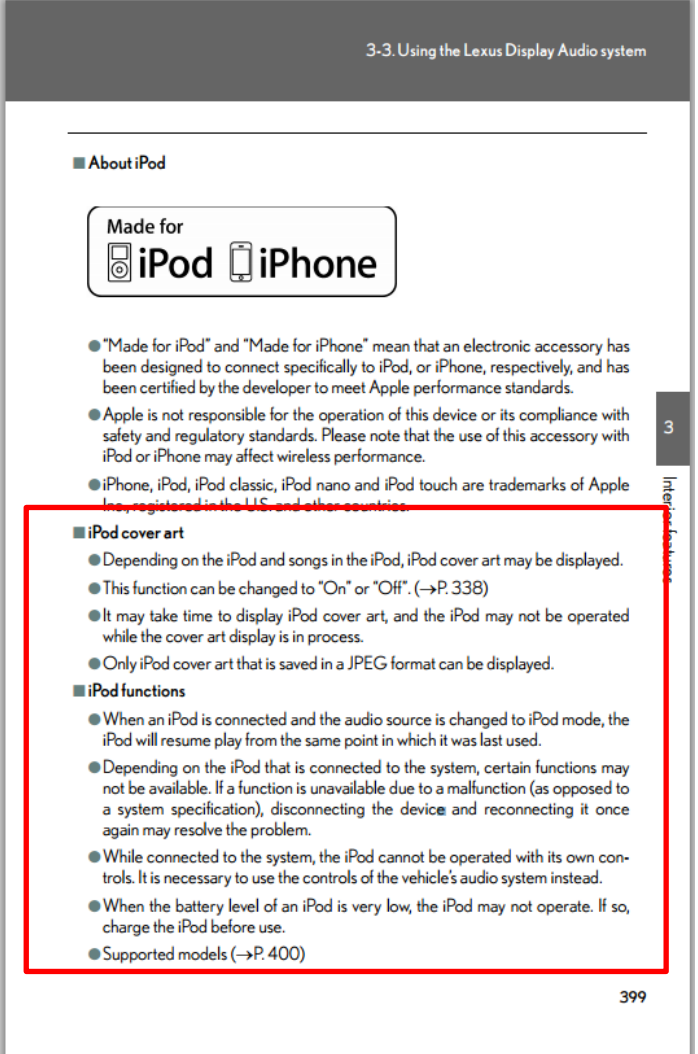
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div>  </div> <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 1px solid red; padding: 5px;"> <p>Selecting a play mode</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired play mode by selecting the "Playlists", "Artists", "Albums", "Songs", "Podcasts", "Audio books", "Genres" or "Composers" tabs.</p>  </div> <p>Selecting, fast-forwarding and reversing songs</p> <ul style="list-style-type: none"> ■ Selecting one song at a time Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired song. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep. ■ Selecting a song from audio control screen Select  or . To fast-forward or reverse, select and hold  or  until you hear a beep. ■ Selecting a song from the list <p>STEP 1 Select "Songs" on the screen.</p> <p>STEP 2 Select the desired song.</p>  </div> <p style="text-align: right; margin-top: 10px;">397</p> <p style="text-align: right; margin-top: 10px;">Interior features</p>

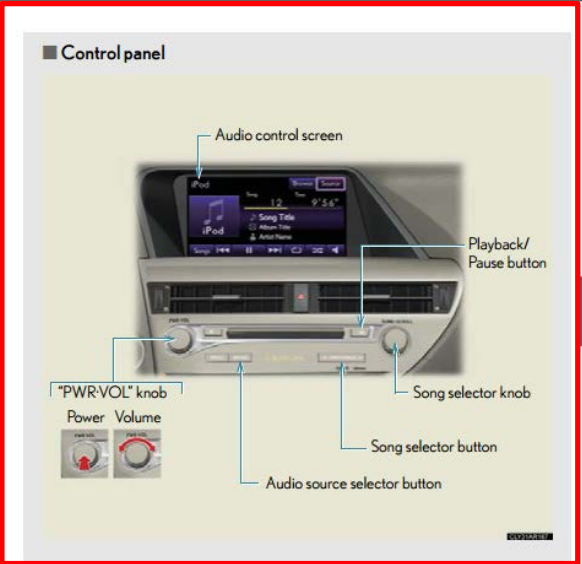
See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 397.

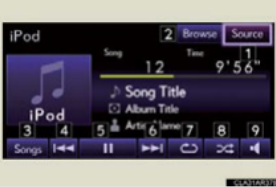

Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none">■ Playing songs from one playlist or album in random order Press . To cancel, press  again.■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press . To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p>515</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</i></p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

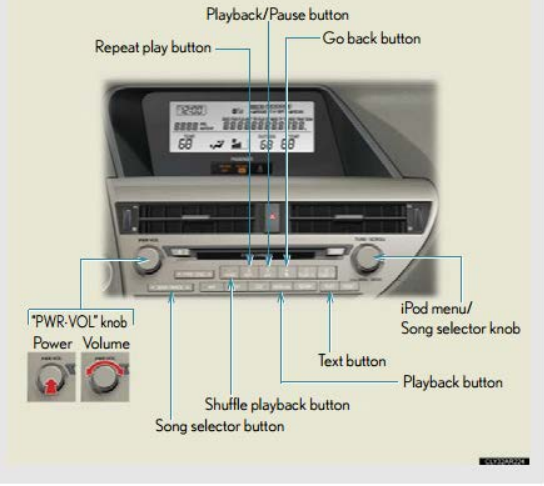
Claim	Support
	 <p>3-3. Using the Lexus Display Audio system</p> <p>■ About iPod</p> <p>Made for iPod iPhone</p> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. ● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p>399</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</i></p>
7. The apparatus of claim 1,	Each device integration system of the accused Lexus automobiles displays the track and time information of songs being played from a connected after-market audio device.

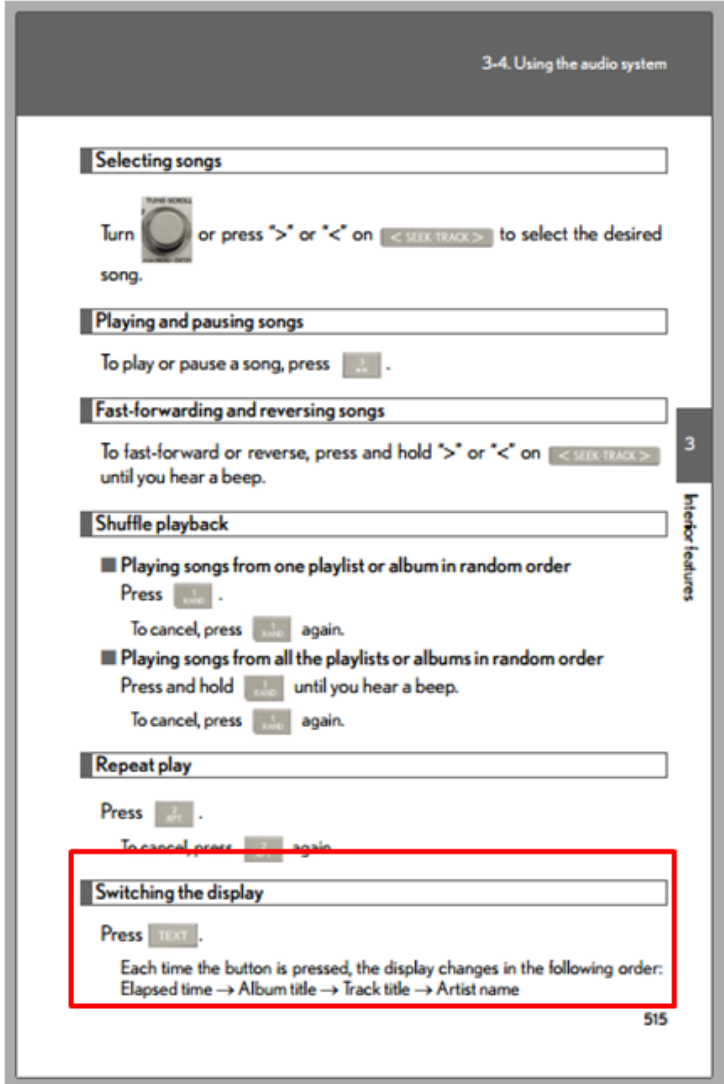











Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>wherein said second pre-programmed code portion processes data generated by the after-market audio device including track and time information.</p>	<p>3-3. Using the Lexus Display Audio system</p>  <p>■ Control panel</p> <p>Audio control screen</p> <p>Playback/ Pause button</p> <p>"PWR-VOL" knob</p> <p>Power Volume</p> <p>Song selector knob</p> <p>Song selector button</p> <p>Audio source selector button</p> <p>3</p> <p>Interior features</p> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

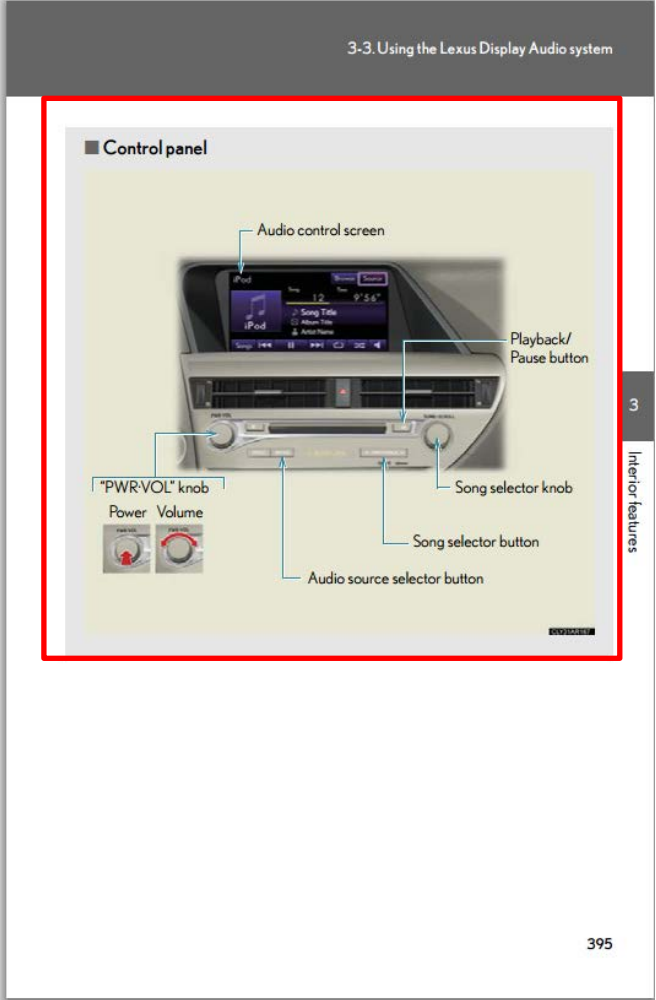
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

Claim	Support
	<div> <p>3-4. Using the audio system</p> <p>■ Control panel ▶ Type A</p> <p>511</p> </div> <p>3 Interior features</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>▶ Type B</p><p>The diagram shows a car's infotainment system interface. It features a central display screen showing '12:00' and '68'. Below the screen are several control elements: a 'Repeat play button', a 'Playback/Pause button', a 'Go back button', a 'Shuffle playback button', a 'Song selector button', a 'Text button', a 'Playback button', and an 'iPod menu/Song selector knob'. On the left side, there are two knobs labeled 'PWR-VOL' knob, 'Power', and 'Volume'. Blue lines connect the text labels to the corresponding physical controls on the interface.</p></div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

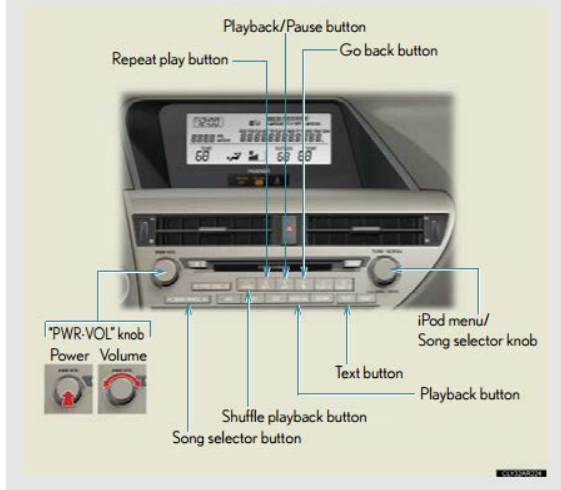
Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none">■ Playing songs from one playlist or album in random order Press . To cancel, press  again.■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p>515</p>

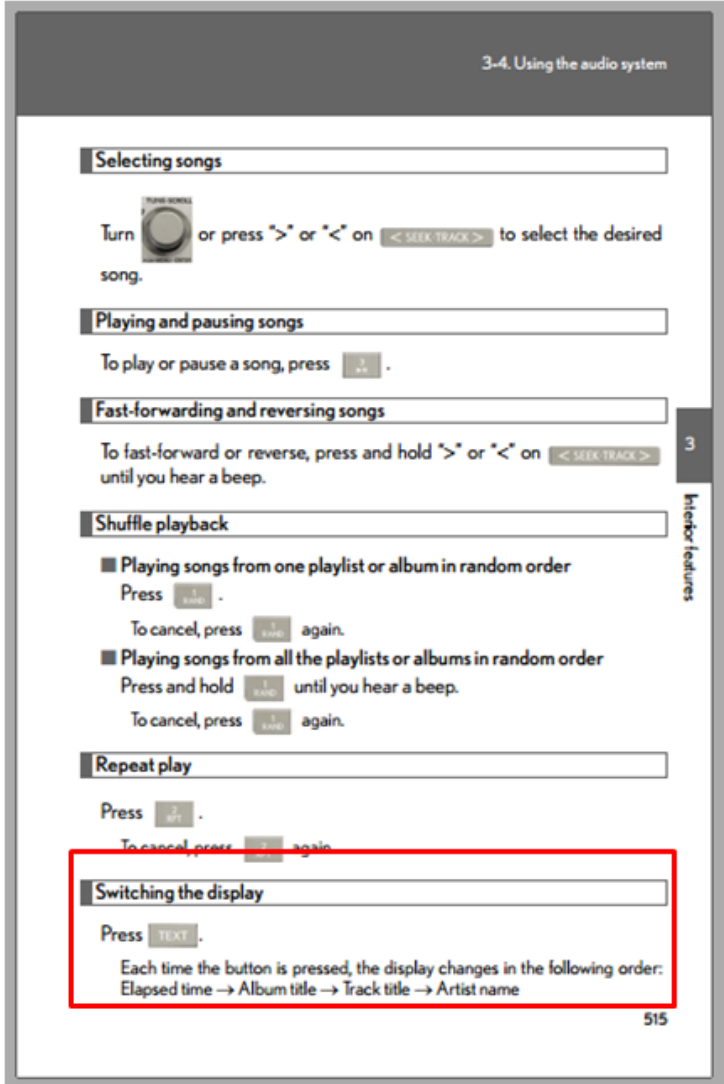











See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.

Claim	Support
<p>8. The apparatus of claim 1, wherein said second pre-programmed code portion processes data generated by the after-market audio device including song title and artist information.</p>	<p>Each device integration system of the accused Lexus automobiles displays the song title and artist information of songs being played from a connected after-market audio device.</p>  <p>The image is a screenshot from a manual titled "3-3. Using the Lexus Display Audio system". It shows a "Control panel" with an iPod connected to the infotainment system. The screen displays "iPod" and "Song Title". Labels point to various controls: "Audio control screen", "Playback/Pause button", "Song selector knob", "Song selector button", "Audio source selector button", and "PWR/VOL knob". Below the main image, there are smaller icons for "Power" and "Volume" knobs. The page number "395" is visible at the bottom right of the screenshot. A vertical label "Interior features" is on the right side of the page.</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

Claim	Support
	<div> <p>3-4. Using the audio system</p> <p>■ Control panel ▶ Type A</p> <p>511</p> </div> <p>3 Interior features</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

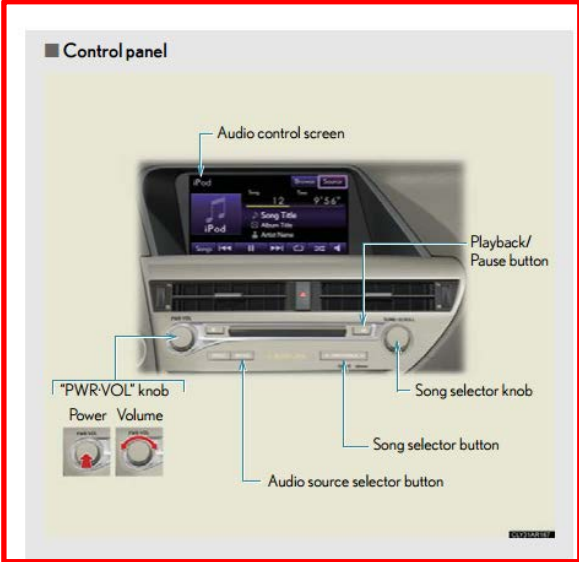
Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car's infotainment system interface. It features a central display screen showing '12:00' and '68'. Below the screen are several control elements: a 'Repeat play button', a 'Playback/Pause button', a 'Go back button', a 'Shuffle playback button', a 'Song selector button', a 'Text button', a 'Playback button', and an 'iPod menu/Song selector knob'. On the left side, there are two knobs labeled 'PWR-VOL' knob, 'Power', and 'Volume'. Blue lines connect the text labels to the corresponding physical controls on the interface.</p></div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none">■ Playing songs from one playlist or album in random order Press . To cancel, press  again.■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p>515</p> <p>Interior features</p>

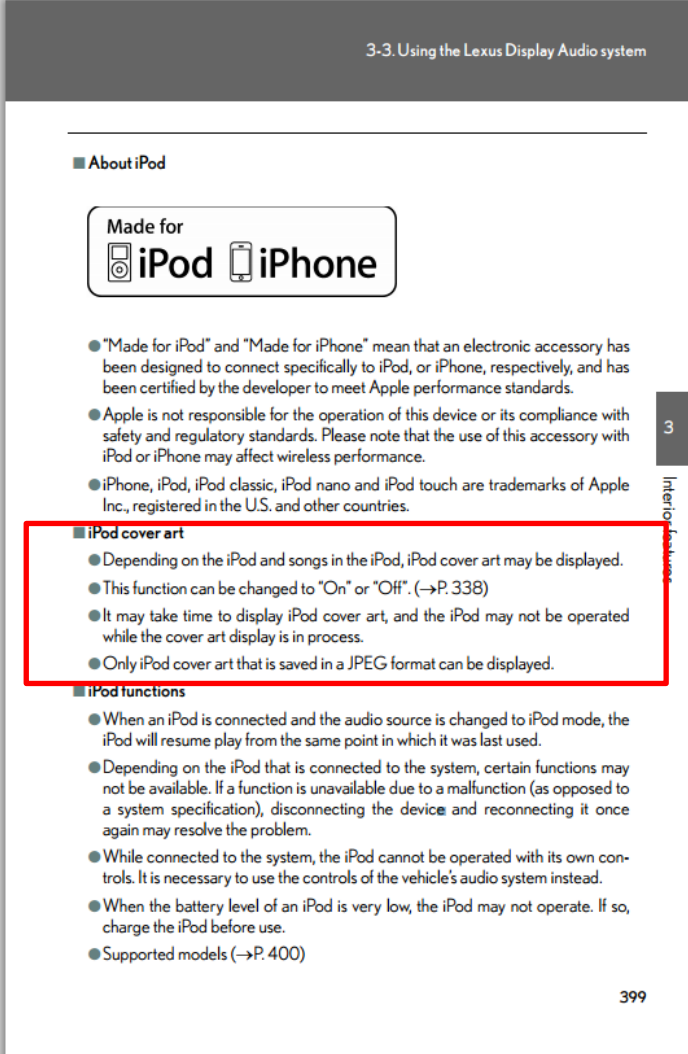


See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.

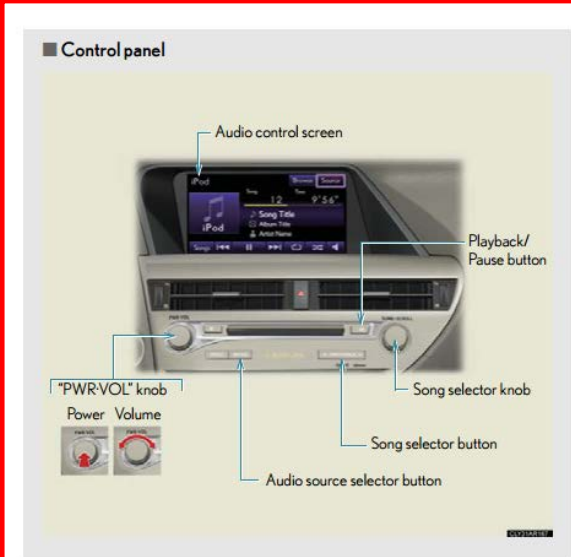
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div> <p>DISPLAY AND MESSAGES</p> </div> <div> <p>Song Number</p> </div> <div> <ul style="list-style-type: none"> • Song number is assigned to SAT Channel number. • Song number can be viewed by pressing the TEXT button if it is not currently being shown in the radio's display. • When using the rotary Tune knob to skip songs, the song number change is shown in the radio's display. The song numbers are valid up to 100. Once the song number reaches 100, the next press of the UP/DOWN button rolls the song number back to 1 although the song itself is number 101. </div> <div> <p>Track Name</p> </div> <div> <ul style="list-style-type: none"> • Track name is assigned to SAT Song title. </div> <div> <p>Artist Name</p> </div> <div> <ul style="list-style-type: none"> • Artist name is assigned to SAT Artist name. <p>TEXT button is used to display the above messages. Press the TEXT button to cycle the Track Number, Track Name and Artist Name in the radio's display. The maximum displayable characters allowed by the radio will be displayed. The radio may display incomplete names if they include more characters than the display is capable of showing.</p> </div> <div> </div> <div> <p>-13-</p> </div>
<p>10. The apparatus of claim 1, wherein said interface processes video information generated by the after-market</p>	<p>Each device integration system of the accused Lexus automobiles displays video information, such as cover art, generated by a connected after-market audio device.</p>

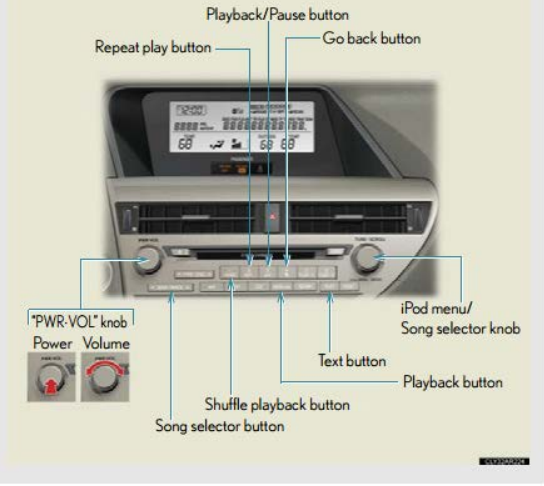
Claim	Support
audio device.	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a control panel for the Lexus Display Audio system. It features an 'Audio control screen' at the top displaying 'iPod' and song information. Below the screen is a 'Playback/Pause button'. To the left is a '"PWR-VOL" knob' with 'Power' and 'Volume' indicators. To the right is a 'Song selector knob'. Below the screen are an 'Audio source selector button' and a 'Song selector button'. A red box highlights the entire control panel area.</p></div> <p>3</p> <p>Interior features</p> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>

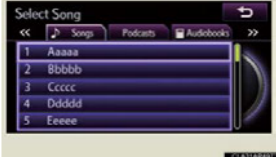



Claim	Support
	 <p>3-3. Using the Lexus Display Audio system</p> <p>■ About iPod</p> <p>Made for  iPod  iPhone</p> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. ● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p>399</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</i></p>
13. The apparatus of	Each device integration system of the accused Lexus automobiles allows a user to control a connected after-market audio device via switches, presets, buttons and virtual controls displayed on a screen of the car stereo.

Claim	Support
<p>claim 1, wherein commands are input by a user using one or more control buttons or presets on the car stereo.</p>	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>■ Control panel</p>  </div> <p style="text-align: right; font-size: small;">3 Interior features</p> <p style="text-align: center;">395</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p>








Claim	Support
	<div> <p>3-4. Using the audio system</p> <p>■ Control panel ▶ Type A</p> <p>511</p> </div> <p>3 Interior features</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>

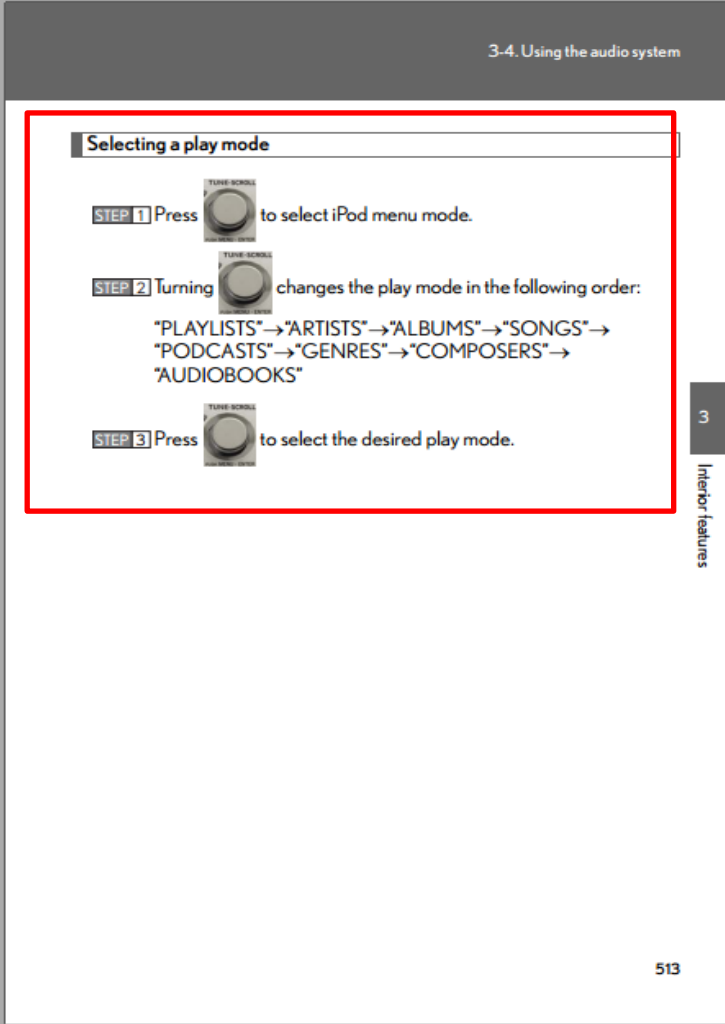



Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back button'PWR-VOL' knob (Power and Volume)iPod menu/Song selector knobText buttonShuffle playback buttonSong selector buttonPlayback button</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen</p> <p>Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p>  <ul style="list-style-type: none"> <li>1 Audio source selection screen appears <li>2 Selecting the play mode <li>3 Displaying the song list <li>4 Select: Playing the previous song Select and hold: Reversing a song <li>5 Pause Select  to playback <li>6 Select: Playing the next song Select and hold: Fast-forwarding a song <li>7 Repeat play <li>8 Shuffle play <li>9 Setting the sound (→P. 428) </div> <p>396</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 396.</i></p>




Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>Selecting a play mode</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired play mode by selecting the "Playlists", "Artists", "Albums", "Songs", "Podcasts", "Audio books", "Genres" or "Composers" tabs.</p>  </div> <p>Selecting, fast-forwarding and reversing songs</p> <ul style="list-style-type: none"> ■ Selecting one song at a time Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired song. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep. ■ Selecting a song from audio control screen Select  or . ■ Selecting a song from the list <p>STEP 1 Select "Songs" on the screen.</p> <p>STEP 2 Select the desired song.</p>  </div> <p style="text-align: right; margin-top: 10px;">397</p>












See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 397.

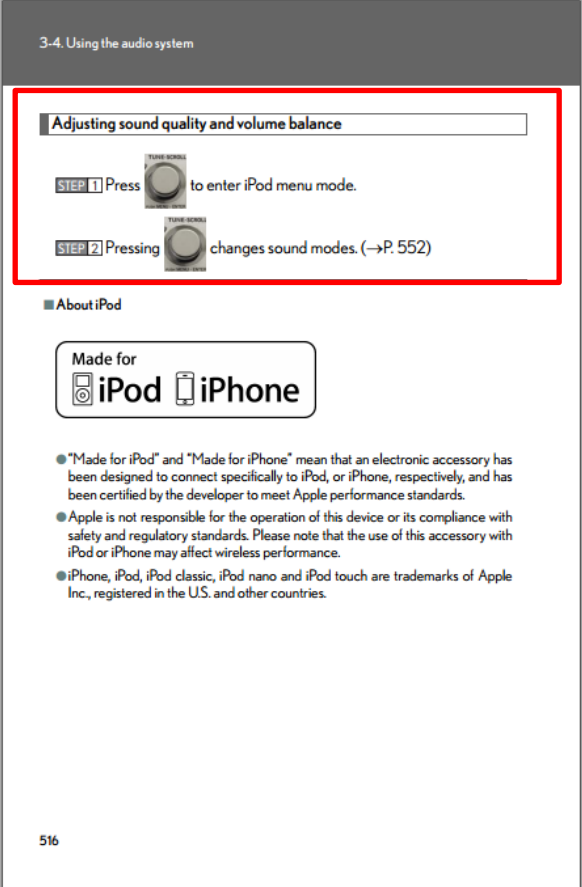




Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Shuffle play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Playing the songs in shuffle<li>↓ : Playing the albums in the iPod in shuffle<li>↓ : Off<p>When a large number of songs is stored in an iPod, shuffle selection may take time.</p><p>Repeat play</p><p>Each time  is selected, the mode changes in the following order:</p><ul style="list-style-type: none"><li>→ : Repeating the song<li>↓ : Off</div> <p>398</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 398.</p>

Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting a play mode</p> <p>STEP 1 Press  to select iPod menu mode.</p> <p>STEP 2 Turning  changes the play mode in the following order: "PLAYLISTS" → "ARTISTS" → "ALBUMS" → "SONGS" → "PODCASTS" → "GENRES" → "COMPOSERS" → "AUDIOBOOKS"</p> <p>STEP 3 Press  to select the desired play mode.</p> <p>513</p> <p>Interior features</p>




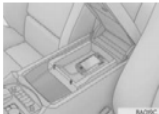
See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 513.

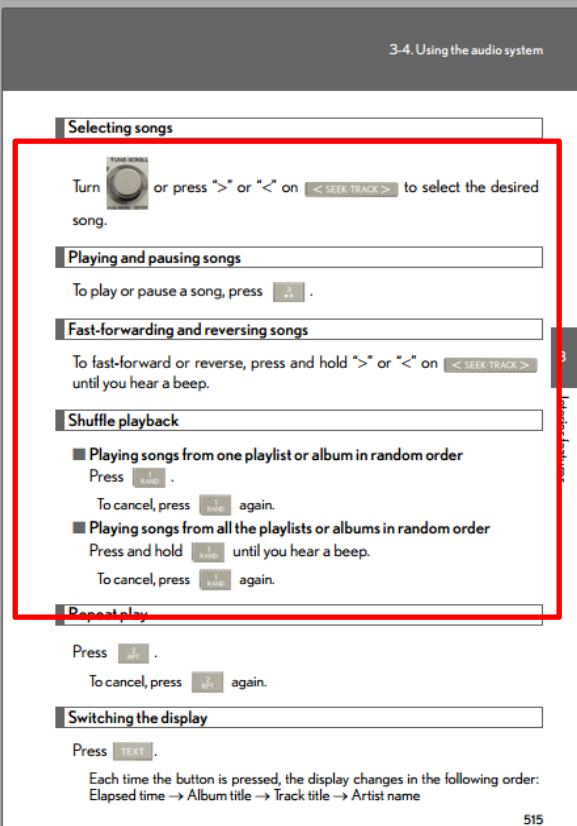











Claim	Support																																														
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 10px; margin: 10px 0;"> <p>■ Play mode list</p> <table border="1"> <thead> <tr> <th>Play mode</th> <th>First selection</th> <th>Second selection</th> <th>Third selection</th> <th>Fourth selection</th> </tr> </thead> <tbody> <tr> <td>*PLAYLISTS*</td> <td>Playlists select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*ARTISTS*</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*ALBUMS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*SONGS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>*PODCASTS*</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> <td>-</td> </tr> <tr> <td>*GENRES*</td> <td>Genre select</td> <td>Artists select</td> <td>Albums select</td> <td>Songs select</td> </tr> <tr> <td>*COMPOSERS*</td> <td>Composers select</td> <td>Albums select</td> <td>Songs select</td> <td>-</td> </tr> <tr> <td>*AUDIOBOOKS*</td> <td>Songs select</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>■ Selecting a list</p> <p>STEP 1 Turn  to display the first selection list.</p> <p>STEP 2 Press  to select the desired item. Pressing the knob changes to the second selection list.</p> <p>STEP 3 Repeat the same procedure to select the desired item. To return to the previous selection list, select "GO BACK" or press .</p> </div> <p>514</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 514.</i></p>		Play mode	First selection	Second selection	Third selection	Fourth selection	*PLAYLISTS*	Playlists select	Songs select	-	-	*ARTISTS*	Artists select	Albums select	Songs select	-	*ALBUMS*	Albums select	Songs select	-	-	*SONGS*	Songs select	-	-	-	*PODCASTS*	Albums select	Songs select	-	-	*GENRES*	Genre select	Artists select	Albums select	Songs select	*COMPOSERS*	Composers select	Albums select	Songs select	-	*AUDIOBOOKS*	Songs select	-	-	-
Play mode	First selection	Second selection	Third selection	Fourth selection																																											
PLAYLISTS	Playlists select	Songs select	-	-																																											
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SONGS	Songs select	-	-	-																																											
PODCASTS	Albums select	Songs select	-	-																																											
GENRES	Genre select	Artists select	Albums select	Songs select																																											
COMPOSERS	Composers select	Albums select	Songs select	-																																											
AUDIOBOOKS	Songs select	-	-	-																																											


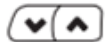




Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> </div> <p style="text-align: right; font-size: small;">515</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.</i></p>

Claim	Support
	 <p>3-4. Using the audio system</p> <p>Adjusting sound quality and volume balance</p> <p>STEP 1 Press  to enter iPod menu mode.</p> <p>STEP 2 Pressing  changes sound modes. (->P. 552)</p> <p>■ About iPod</p> <p>Made for  iPod  iPhone</p> <ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>516</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</i></p>



Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <hr/> <p>■ About iPod</p> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Made for</p> <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> iPod iPhone </div> </div> <ul style="list-style-type: none"> ● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. ● iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to "On" or "Off". (→P. 338) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in a JPEG format can be displayed. <p>■ iPod functions</p> <ul style="list-style-type: none"> ● When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used. ● Depending on the iPod that is connected to the system, certain functions may not be available. If a function is unavailable due to a malfunction (as opposed to a system specification), disconnecting the device and reconnecting it once again may resolve the problem. ● While connected to the system, the iPod cannot be operated with its own controls. It is necessary to use the controls of the vehicle's audio system instead. ● When the battery level of an iPod is very low, the iPod may not operate. If so, charge the iPod before use. ● Supported models (→P. 400) <p style="text-align: right;">399</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 399.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center; background-color: #cccccc; margin-bottom: 10px;">1. BASIC OPERATION</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>EJECTING A DISC</p> <p>1 Press the  button and remove the disc.</p>  <p>NOTICE</p> <ul style="list-style-type: none"> Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot. <p>(INFORMATION)</p> <ul style="list-style-type: none"> The player is intended for use with 4.7 in. (12 cm) discs only. When inserting a disc, gently insert the disc with the label facing up. </div> <div style="width: 45%; border: 2px solid red; padding: 5px;"> <p>USB/AUX PORT</p> <p>There are 2 USB ports and an AUX port in the console box.</p> <p>1 Open the console box, then open the cover and connect a USB memory.</p>  <p>NOTICE</p> <ul style="list-style-type: none"> Turn on the power of the device if it is not turned on. <p>2 Close the console box.</p> <p>(INFORMATION)</p> <ul style="list-style-type: none"> There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box.  <p>NOTICE</p> <ul style="list-style-type: none"> Up to two portable players can be connected to the USB port at the same time. </div> </div> <p style="text-align: right; margin-top: 10px;">4</p> <p style="text-align: right; margin-top: 10px;">AUDIO/VISUAL SYSTEM</p> <p style="text-align: center; margin-top: 10px;">153</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 515.</p> </div>




Claim	Support
	 <p>3-4. Using the audio system</p> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none">■ Playing songs from one playlist or album in random order Press . To cancel, press  again.■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p>515</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 516.</p>

Claim	Support
	<div> <h3>iPod CONTROL - BASIC</h3> </div> <div> <h4>Song UP/DOWN</h4> </div> <div>  <p>TUNE-FILE</p> </div> <div> <ul style="list-style-type: none"> • TUNE-FILE KNOB Use the TUNE-FILE knob to skip to the next or previous song. Rotate the knob 1 click to the right or left to skip to the next song or previous one respectively. Rotate the knob "N" steps to the right or left to skip skips to next "Nth" song or previous "Nth" song (including the current song). </div> <div>  </div> <div> <ul style="list-style-type: none"> • REMOTE CONTROL (Steering Wheel Switches) Use the Track UP/DOWN button to skip to the next or previous song. Press and release ^ button to skip to the next song. Press and release v button to skip to the previous song. </div> <div>  </div> <div> <h4>Fast-Forward/Rewind</h4> </div> <div> <p>Move quickly through a song by pressing the ^ or v button during playback. * The Fast-Forward/Rewind operation has the same behavior as the iPod 'click wheel'. Press ^ to fast-forward through a song. Press ^ again to stop. Press v to rewind a song. Press v again to stop.</p> </div> <div>  </div> <div> <h4>Random Play [Shuffle ON/OFF]</h4> </div> <div> <p>Shuffle songs within the "Now Playing" list of the iPod: Play songs on the iPod in random order within the current "Now Playing" list using the SCAN button. After playing the last song in the Playlist randomly, Shuffle begins playing back in a new random order. Press and hold the SCAN button (more than 1 second) to turn shuffle ON. Press and hold the SCAN button (more than 1 second) again to turn shuffle OFF.</p> </div> <div>  </div> <div> <h4>Shuffle All</h4> </div> <div> <p>Press the Preset 5 to shuffle all the songs on the iPod. Press and hold the SCAN button to cancel.</p> </div> <div>  </div> <div> <p>-8-</p> </div>

See, e.g., Ex. C (Interface Kit for iPod) at 8.

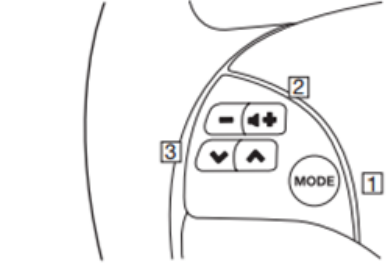



Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>SCAN</p> <p>Press and release the SCAN button to preview 10 seconds of each song on the iPod. When a desired song is heard, press and release the SCAN button (before 10 seconds has been played) to play the entire song. The SCAN function is canceled.</p> <p></p> <p>In addition, SCAN is also usable within the current "Now Playing" list. If it is selected as described above, while in a "Now Playing" list (Playlist, Album, etc.), then only the songs in that list are scanned.</p> </div> <div style="width: 45%;"> <p>MUSIC SEARCH</p> <p>The radio recognizes the following categories in the iPod: Playlist, Artist, Album, Genre, Podcast and Audiobook. The user can select one of the following two methods to choose songs from these categories.</p> <p>Method 1 (Category Search)</p> <p>The user can do a music search in any of the following categories: Playlist, Artist, Album, Genre, Podcast and Audiobook. The buttons TYPE·FOLDER UP/DOWN, Preset 6 and the TUNE·FILE knob are used together to implement the search function through the following steps:</p> <p>a. Category Browsing</p> <p>The TYPE·FOLDER UP/DOWN button is used for category browsing. Press the TYPE·FOLDER button and the list of categories, Playlist ↔ Artist ↔ Album ↔ Genre ↔ Podcast ↔ Audiobook is shown in the radio's display. Pressing ^, shifts the selection list to the right and v shifts the selection list to the left.</p> <p></p> </div> </div> </div> <p style="text-align: center;">-9-</p> <p>See, e.g., Ex. C (Interface Kit for iPod) at 9.</p>

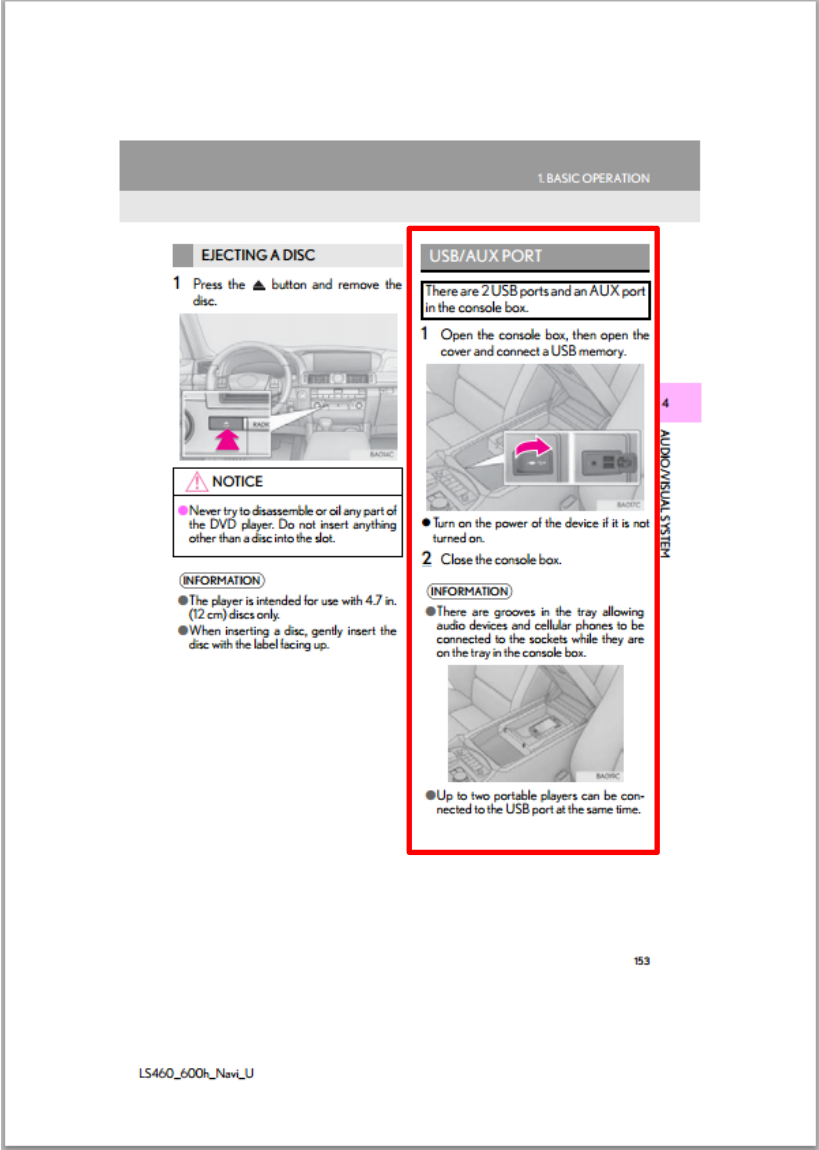

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>b. Category Selection</p> <p>Preset 6 [Enter] button is used to make the selection after category browsing. Press the Preset 6 button to select the name of the last item displayed in the selected category (Playlist / Artist / Album / Genre/ Podcast / Audiobook).</p>  <p>NOTE: If this is the first search after connecting the iPod, the first item in the selected category is shown.</p> <p>c. Browsing the Items in the Selected Category</p> <p>If the user chooses to play all the songs (beginning with the first one) in the last displayed category (last displayed Playlist / Artist / Album / Genre / Podcast / Audiobook), this step can be skipped. Go to the next step.</p>  <p>The TUNE-FILE knob is used for browsing the items in the selected category. Rotate the TUNE-FILE knob right/left to display the name of next/previous item in the selected category.</p> <p>d. Select Songs</p> <p>Preset 6 is used to make a selection when the desired item in the selected category is shown in the radio's display. Press the Preset 6 button to play songs from the displayed item in the selected category. This item becomes the current "Now Playing" list of the iPod, the song track is displayed on the radio and the search is completed.</p>  </div> <p style="text-align: center;">-10-</p> <p><i>See, e.g., Ex. C (Interface Kit for iPod) at 10.</i></p>

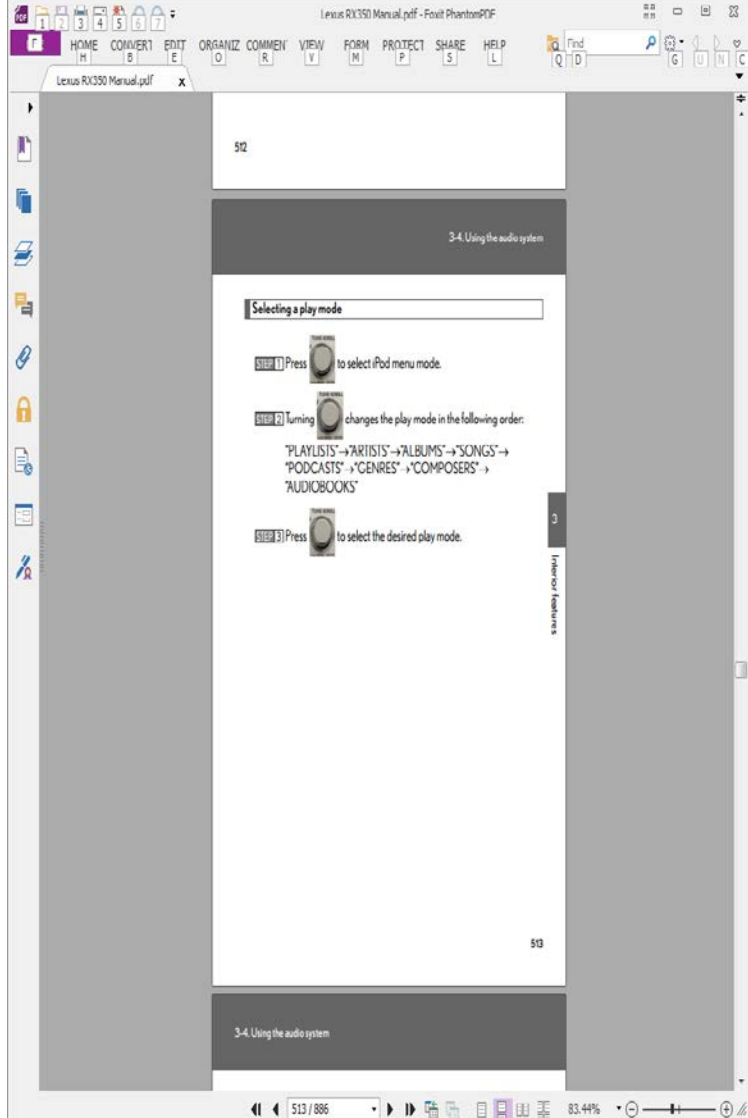
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

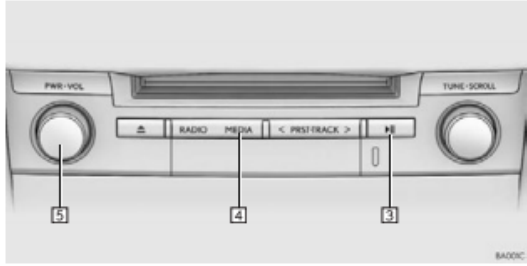
Claim	Support																							
	<div style="border: 1px solid black; padding: 10px;"> <p>Method 2 (Quick Search)</p> <p>The user can do a music search in the categories: Playlist, Artist, Album and Podcast. Presets 1-4 are assigned to each of these 4 categories. Category browsing is not needed and selection is made directly from the Presets. Presets 1-4, Preset 6 and TUNE are used together as follows.</p> <p>a. Preset Assignment</p> <table border="1" style="margin-left: 20px;"> <thead> <tr style="background-color: #ffff00;"> <th>Button</th> <th>Display</th> <th>Browse</th> </tr> </thead> <tbody> <tr> <td>Preset 1</td> <td>Playlist</td> <td>Playlist names</td> </tr> <tr> <td>Preset 2</td> <td>Artist</td> <td>Artist names</td> </tr> <tr> <td>Preset 3</td> <td>Album</td> <td>Album names</td> </tr> <tr> <td>Preset 4</td> <td>Podcast</td> <td>Podcast episodes</td> </tr> </tbody> </table> <p>b. Category Selection</p> <p>The last item displayed in the category will be displayed on the radio using Presets 1-4. Press Preset 1 to display the name of the last displayed Playlist on the radio. Press Preset 2 to display the name of the last displayed Artist. Press Preset 3 to display the name of the last displayed Album. Press Preset 4 to display the last displayed Podcast episode.</p> <div style="margin-left: 20px;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">SCAN</td> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">4</td> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">6</td> <td style="padding: 2px 5px;">TEXT</td> </tr> </table> </div> <p style="text-align: right; margin-top: 20px;">-11-</p> </div> <p><i>See, e.g., Ex. C (Interface Kit for iPod) at 11.</i></p>	Button	Display	Browse	Preset 1	Playlist	Playlist names	Preset 2	Artist	Artist names	Preset 3	Album	Album names	Preset 4	Podcast	Podcast episodes	SCAN	1	2	3	4	5	6	TEXT
Button	Display	Browse																						
Preset 1	Playlist	Playlist names																						
Preset 2	Artist	Artist names																						
Preset 3	Album	Album names																						
Preset 4	Podcast	Podcast episodes																						
SCAN	1	2	3	4	5	6	TEXT																	

Claim	Support
	<p>REMOTE CONTROL (Steering Wheel Switches)</p>  <p>The radio system can be operated using the remote control located on the steering wheel.</p> <ul style="list-style-type: none"> 1  Power ON/Change mode: Press Power OFF: Press and hold 2  Volume 3  Playback mode: Track UP/DOWN Search mode: Sub Category select (selected by Preset 6) <p style="text-align: center;">-12-</p> <p><i>See, e.g., Ex. C (Interface Kit for iPod) at 12.</i></p>
<p>14. The apparatus of claim 1, wherein</p>	<p>Each device integration system of the accused Lexus automobiles also allows for various input sources to be connected to an auxiliary input electrical connector and played through the car speakers.</p>



Claim	Support
<p>audio signals from the one or more auxiliary input sources are selectively channeled to the car stereo by said interface.</p>	 <p>The screenshot shows a manual page titled "1. BASIC OPERATION" with a sub-section "AUDIO/VISUAL SYSTEM" on the right. The "EJECTING A DISC" section includes a numbered step: "1 Press the  button and remove the disc." Below this is an image of the car's dashboard with a pink arrow pointing to the "EJECT" button. A "NOTICE" box contains a warning: "Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot." An "INFORMATION" box notes: "The player is intended for use with 4.7 in. (12 cm) discs only." and "When inserting a disc, gently insert the disc with the label facing up." The "USB/AUX PORT" section is highlighted with a red box and includes a note: "There are 2 USB ports and an AUX port in the console box." It has two numbered steps: "1 Open the console box, then open the cover and connect a USB memory." and "2 Close the console box." Below this is an image of the console box with a pink arrow pointing to the USB/AUX ports. Another "INFORMATION" box states: "There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box." A final "INFORMATION" box notes: "Up to two portable players can be connected to the USB port at the same time." The page number "153" is at the bottom right, and the document ID "LS460_600h_Navi_U" is at the bottom left.</p> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.</p>

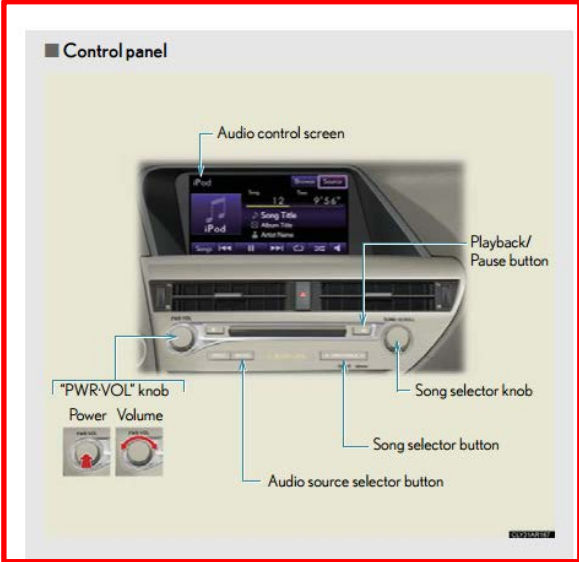
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

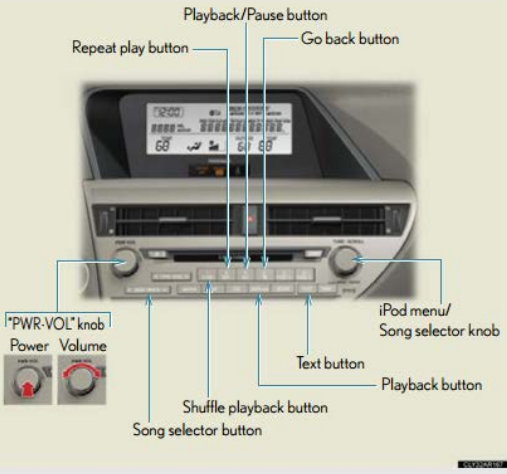
Claim	Support
	 <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 203.</p>

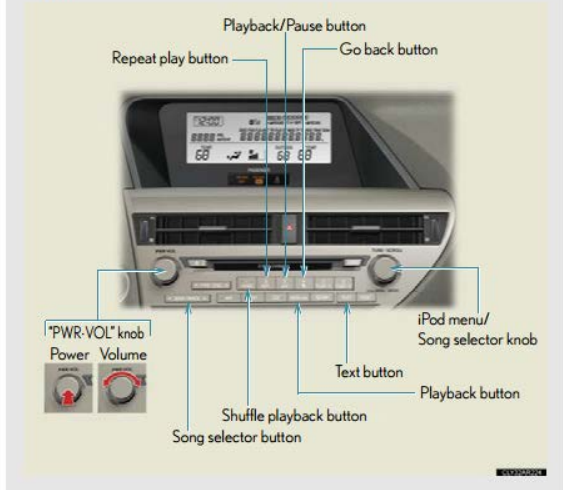
Claim	Support												
	<div> <p>3. MEDIA OPERATION</p> </div> <div> <p>■ CONTROL PANEL</p> </div> <div>  <p>The diagram shows a close-up of the car's audio control panel. It features a central display screen flanked by two circular knobs. The left knob is labeled 'PWR-VOL' and the right knob is labeled 'TUNE-SCROLL'. Between the knobs are several buttons: a small square button on the left, a 'RADIO' button, a 'MEDIA' button, a '< PRE TRACK >' button, and a 'MUTE' button. Numbered callouts 1 through 5 point to these controls: 1 points to the left square button, 2 points to the 'RADIO' button, 3 points to the 'MUTE' button, 4 points to the 'MEDIA' button, and 5 points to the left 'PWR-VOL' knob.</p> </div> <div> <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the audio source selection screen.</td> </tr> <tr> <td>2</td> <td>Select to display the sound setting screen.</td> </tr> <tr> <td>3</td> <td>Press to turn mute on/off.</td> </tr> <tr> <td>4</td> <td> <ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. </td> </tr> <tr> <td>5</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system. </td> </tr> </tbody> </table> </div> <div> <p>204</p> </div> <div> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 204.</p> </div>	No.	Function	1	Select to display the audio source selection screen.	2	Select to display the sound setting screen.	3	Press to turn mute on/off.	4	<ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. 	5	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system.
No.	Function												
1	Select to display the audio source selection screen.												
2	Select to display the sound setting screen.												
3	Press to turn mute on/off.												
4	<ul style="list-style-type: none"> Press to select a media mode. While in a media mode, pressing the "MEDIA" button changes media modes. 												
5	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the audio system. 												


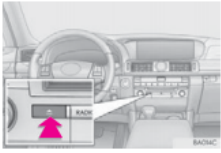

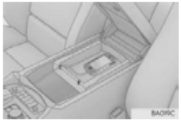
Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>23. The apparatus of claim 1, further comprising a bus connection established between the after-market audio device and said interface.</p> <p>24. The apparatus of claim 23, wherein the bus connection comprises a Universal Serial Bus (USB) connection.</p>	<p>Each device integration system of the accused Lexus automobiles connects to after-market audio devices using a USB bus connector (i.e., second electrical connector) for connecting, via a cable, to an after-market audio device external to the car stereo, such as an MP3 player or iPhone. The USB connector communicates using the Universal Serial Bus protocol.</p> <div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>STEP 1</p>  </div> <div style="width: 50%;"> <p>Pull up the lever to release the lock, and lift the armrest.</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p>STEP 2</p>  </div> <div style="width: 50%;"> <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> </div> </div> <p style="text-align: left; margin-top: 20px;">394</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i></p>












Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div><p>■ Control panel</p><p>The diagram shows a close-up of the Lexus Display Audio control panel. A red rectangular box highlights the central area containing the audio control screen and the physical buttons below it. Labels with leader lines point to the following components: 'Audio control screen' (the top display), 'Playback/Pause button' (a button on the right side of the screen), 'Song selector knob' (a knob on the right side of the panel), 'Song selector button' (a button below the knob), 'Audio source selector button' (a button in the center of the panel), and '"PWR-VOL" knob' (a knob on the left side of the panel). Below the main panel, there are two smaller inset images labeled 'Power' and 'Volume'.</p></div> <p>395</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 395.</i></p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">3 Interior features</p>

Claim	Support
	<p>3-4. Using the audio system</p> <div><p>■ Control panel</p><p>▶ Type A</p><p>The diagram shows a car audio control panel with the following labels and arrows pointing to specific controls:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back buttonShuffle playback buttonSong selector buttonText buttonPlayback buttoniPod menu/ Song selector knobPower Volume knob</div> <p>3</p> <p>Interior features</p> <p>511</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 511.</p>



Claim	Support
	<p>3-4. Using the audio system</p> <div><p>▶ Type B</p><p>The diagram shows a car audio system interface with several controls labeled with blue lines and text:</p><ul style="list-style-type: none">Playback/Pause buttonRepeat play buttonGo back buttonShuffle playback buttonSong selector buttonText buttonPlayback buttoniPod menu/ Song selector knob'PWR-VOL' knob (Power and Volume)</div> <p>512</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 512.</i></p>

Claim	Support
	<div style="text-align: center; background-color: #cccccc; padding: 5px;">1. BASIC OPERATION</div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="width: 45%;"> <p>EJECTING A DISC</p> <p>1 Press the  button and remove the disc.</p>  <p>NOTICE</p> <p>Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot.</p> <p>INFORMATION</p> <ul style="list-style-type: none"> The player is intended for use with 4.7 in. (12 cm) discs only. When inserting a disc, gently insert the disc with the label facing up. </div> <div style="width: 45%; border: 2px solid red; padding: 5px;"> <p>USB/AUX PORT</p> <p>There are 2 USB ports and an AUX port in the console box.</p> <p>1 Open the console box, then open the cover and connect a USB memory.</p>  <p>4 AUDIO/VISUAL SYSTEM</p> <ul style="list-style-type: none"> Turn on the power of the device if it is not turned on. <p>2 Close the console box.</p> <p>INFORMATION</p> <ul style="list-style-type: none"> There are grooves in the tray allowing audio devices and cellular phones to be connected to the sockets while they are on the tray in the console box.  <ul style="list-style-type: none"> Up to two portable players can be connected to the USB port at the same time. </div> </div> <p style="text-align: center; margin-top: 20px;">153</p> <p style="text-align: left; margin-top: 20px;">LS460_600h_Navi_U</p>

See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 153.

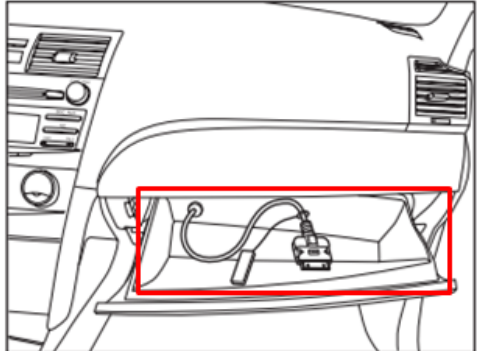
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">514</p> <p style="text-align: right;">3-4. Using the audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Selecting songs</p> <p>Turn  or press ">" or "<" on  to select the desired song.</p> <p>Playing and pausing songs</p> <p>To play or pause a song, press .</p> <p>Fast-forwarding and reversing songs</p> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <p>Shuffle playback</p> <ul style="list-style-type: none"> ■ Playing songs from one playlist or album in random order Press . To cancel, press  again. ■ Playing songs from all the playlists or albums in random order Press and hold  until you hear a beep. To cancel, press  again. <p>Repeat play</p> <p>Press .</p> <p>To cancel, press  again.</p> <p>Switching the display</p> <p>Press .</p> <p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p> <p style="text-align: right;">515</p> </div> <p style="text-align: center;">3-4. Using the audio system</p> </div> <p>See, e.g., Ex. B (2015 Lexus LS460 Navigation System Manual) at 191.</p>



Claim	Support
44. An apparatus for docking a portable device for integration with a car stereo comprising:	See preamble [1P] support.
a storage area remote from a car stereo for storing the portable device;	The accused Lexus automobiles include “storage areas remote from the car stereo for storing the portable device,” including glove boxes, center consoles and dash receptacles.

Claim	Support
	<p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <p>STEP 1</p>  <p>Pull up the lever to release the lock, and lift the armrest.</p> <p>STEP 2</p>  <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <p>394</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</i></p>

Claim	Support
	<div> <p>Pictorial index Interior</p> <ul style="list-style-type: none"> Front SRS side airbags P. 119 Seat belts P. 83 Head restraints P. 81 Power window switches P. 98 Rear seats P. 72 Armrest P. 622 Auxiliary box * P. 606 Rear SRS side airbags P. 119 Cup holders P. 601 Rear seat entertainment system *, *2 Power outlet * P. 616 Door pockets P. 600 Bottle holders P. 600 Front seats P. 68 SRS driver airbag P. 119 SRS knee airbags P. 119 SRS front passenger airbag P. 119 Power outlet P. 616 AUX port P. 412, 554 USB port P. 574, 402, 510, 520 Console box P. 604 <p>10</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 10.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div style="border: 1px solid black; padding: 10px;"> <p>INTRODUCTION</p> <p>The Interface Kit allows you to play music from an iPod® through your vehicle's radio system. Reading this Owner's Manual ensures that you will get the most out of your audio experience. This manual explains how to integrate the radio with your iPod using the Interface Kit. Button locations and labeling will differ depending upon your vehicle's make and model.</p> <p>For new iPods, follow the iPod instructions for loading songs into it before connecting to the radio. The Interface Kit utilizes the Satellite Radio (SAT) controls of your radio's. Therefore, Satellite Radio controls are used to search for and play music from the iPod.</p> <p>NOTE: With the Interface Kit installed, Satellite Radio use is not possible.</p> <p style="font-size: small;">Apple and iPod are registered trademarks of Apple Inc.</p> <p style="text-align: center;">-4-</p> </div> <div style="margin-top: 10px;">What's Included</div> <div>The Interface Kit includes cable located in your vehicle's glove box.</div> <div style="margin-top: 10px;">  </div> <p style="margin-top: 10px;">See, e.g., Ex. C (Interface Kit for iPod) at 4.</p>
<p>a docking portion within the storage area for communicating and physically mating with the portable device;</p>	<p>Each accused Lexus automobile includes a “docking portion within the storage area for communicating and physically mating with the portable device.” The USB connector itself may be considered a “docking portion.” The after-market audio device may also be stored in various locations throughout the vehicle when connected to the USB port of the device integration system, such as center consoles, dash receptacles, and glove boxes.</p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system Listening to an iPod</p> <p>Connecting an iPod enables you to enjoy music from the vehicle speakers. Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "iPod" with an iPod connected.</p> <p>■ Connecting an iPod</p> <p>STEP 1</p>  <p>Pull up the lever to release the lock, and lift the armrest.</p> <p>STEP 2</p>  <p>Open the cover and connect an iPod using an iPod cable.</p> <p>Turn on the power of the iPod if it is not turned on.</p> <p>394</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 394.</p>

Claim	Support
	<div> <p>Pictorial index Interior</p> <ul style="list-style-type: none"> Front SRS side airbags P. 119 Seat belts P. 83 Head restraints P. 81 Power window switches P. 98 Rear seats P. 72 Armrest P. 622 Auxiliary box * P. 606 Rear SRS side airbags P. 119 Cup holders P. 601 Rear seat entertainment system *, *2 Power outlet * P. 616 Door pockets P. 600 Bottle holders P. 600 Front seats P. 68 SRS driver airbag P. 119 SRS knee airbags P. 119 SRS front passenger airbag P. 119 Power outlet P. 616 Power outlet P. 616 AUX port P. 412, 554 USB port*1 P. 394, 402, 510, 520 Console box P. 604 <p>10</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner’s Manual) at 10.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
	<div> <p>INTRODUCTION</p> </div> <div> <p>The Interface Kit allows you to play music from an iPod® through your vehicle's radio system. Reading this Owner's Manual ensures that you will get the most out of your audio experience. This manual explains how to integrate the radio with your iPod using the Interface Kit. Button locations and labeling will differ depending upon your vehicle's make and model.</p> </div> <div> <p>For new iPods, follow the iPod instructions for loading songs into it before connecting to the radio. The Interface Kit utilizes the Satellite Radio (SAT) controls of your radio's. Therefore, Satellite Radio controls are used to search for and play music from the iPod.</p> </div> <div> <p>NOTE: With the Interface Kit installed, Satellite Radio use is not possible.</p> </div> <div> <p><small>Apple and iPod are registered trademarks of Apple Inc.</small></p> </div> <div> <p>-4-</p> </div> <div> <p>What's Included</p> </div> <div> <p>The Interface Kit includes cable located in your vehicle's glove box.</p> </div> <div> </div>
<p>a data port in communication with the docking portion, the data port connectable with a device for integrating the portable device</p>	<p>Each accused Lexus automobile includes a data port (USB port) in the device integration system attached to a cable from the back side of the "docking portion" for integrating portable devices (such as MP3 players, iPhones, iPads, and other smart devices) with the car stereo.</p> <p>See element [1B] support.</p>

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
with the car stereo; and	
an interface connected to said data port and to the car stereo, said interface channeling audio from the portable device to the car stereo	<p>Each device integration system of the accused Lexus automobiles includes “an interface connected to said data port and to the car stereo, said interface channeling audio from the portable device to the car stereo.”</p> <p>See element [1D] support.</p>
said interface including a microcontroller in electrical communication with the portable device through said data port and the car stereo,	<p>See element [1E] support.</p>
said microcontroller pre-programmed to execute first program code for remotely controlling the portable device using the car stereo by processing	<p>The microcontroller of each device integration system of the accused Lexus automobiles is “pre-programmed to execute first program code for remotely controlling the portable device using the car stereo by processing control commands generated by the car stereo in a format incompatible with the portable device into formatted control commands compatible with the portable device, and dispatching formatted control commands to the portable device for execution thereby.”</p> <p>See element [1F] support.</p>

Claim	Support
control commands generated by the car stereo in a format incompatible with the portable device into formatted control commands compatible with the portable device, and dispatching formatted control commands to the portable device for execution thereby.	
47. The apparatus of claim 44, wherein the data port comprises an RS-232 or Universal Serial Bus (USB) port.	The data port of each accused Lexus automobile “comprises [a] Universal Serial Bus (USB) port.” See claims 23 and 24 support.
57. An audio device	See preamble [1P] support.

Claim	Support
integration system comprising:	
a first electrical connector connectable to a car stereo;	<i>See element [1A] support.</i>
a second electrical connector connectable to a portable MP3 player external to the car stereo	<i>See element [1B] support.</i>
an interface connected between said first and second electrical connectors for transmitting audio from a portable MP3 player to a car stereo,	<i>See element [1D] support.</i>
said interface including a microcontroller in electrical communication with said first and second electrical	<i>See element [1E] support.</i>

Claim	Support
connectors, said microcontroller pre-programmed to execute:	
a first pre-programmed code portion for generating a device presence signal and transmitting the signal to the car stereo to maintain the car stereo in an operational state; and	See claim 6 support.
a second pre-programmed code portion for remotely controlling the MP3 player using the car stereo by receiving a control command from the car stereo through said first electrical connector in a format incompatible	See element [1F] support.

Claim	Support
<p>with the MP3 player, processing the control command into a formatted control command compatible with the MP3 player, and transmitting the formatted control command to the MP3 player through said second electrical connector for execution by the MP3 player.</p>	
<p>58. The apparatus of claim 57, wherein the car stereo further comprises an Original Equipment Manufacturer (OEM) car stereo connected to the first electrical</p>	<p>See claim 2 support.</p>

Claim	Support
connector.	
<p>60. The system of claim 57, wherein said microcontroller is pre-programmed to execute a third code portion for receiving data from the MP3 player in a format incompatible with the car stereo, processing received data into formatted data compatible with the car stereo, and transmitting formatted data to the car stereo for display thereby.</p>	<p>See element [1G] support.</p>
<p>61. The apparatus of claim 60, wherein said</p>	<p>See claim 7 support.</p>

Claim	Support
<p>third code portion processes data generated by the MP3 player including track and time information.</p>	
<p>62. The apparatus of claim 60, wherein said third code portion processes data generated by the MP3 player including song title and artist information.</p>	<p>See claim 8 support.</p>
<p>63. The apparatus of claim 60, wherein commands are input by a user using one or more control buttons or presets on the car stereo.</p>	<p>See claim 13 support.</p>

Claim	Support
<p>64. The apparatus of claim 57, further comprising a bus connection established between the MP3 player and said interface.</p> <p>65. The apparatus of claim 64, wherein the bus connection comprises a Universal Serial Bus (USB) connection.</p>	<p>See claims 23 and 24 support.</p>
<p>86. A device for integrating video information for use with a car stereo, comprising:</p>	<p>See preamble [1P] support.</p>
<p>a first electrical connector connectable to a car stereo;</p>	<p>See element [1A] support.</p>
<p>a second electrical</p>	<p>See element [1B] support.</p>

Claim	Support
connector connectable to an after-market video device external to the car stereo;	
an interface connected between said first and second electrical connectors for transmitting video information from the after-market video device to the car stereo,	See element [1D] support.
the interface including a microcontroller in electrical communication with said first and second electrical connectors, said microcontroller pre-programmed to execute:	See element [1E] support.
a first pre-programmed code portion for	See claim 6 support.

Claim	Support
<p>generating a device presence signal and transmitting the signal to the car stereo through said first electrical connector to maintain the car stereo in an operational state responsive to signals generated by the after-market video device.</p>	
<p>88. The apparatus of claim 86, further comprising a bus connection established between the video device and said interface.</p> <p>89. The apparatus of claim 88, wherein the bus connection</p>	<p>See claims 23 and 24 support.</p>

Claim	Support
<p>comprises a Universal Serial Bus (USB) connection.</p>	
<p>90. The apparatus of claim 86, wherein said microcontroller is pre-programmed to execute a second code portion for receiving a control signal from the car stereo in a format incompatible with the video device, processing a received control signal into a formatted control signal compatible with the video device, and transmitting the formatted control signal to the video device</p>	<p>See element [1F] support.</p>

Claim	Support
for execution thereby.	
91. The apparatus of claim 90, wherein said microcontroller is pre-programmed to execute a third code portion for receiving data from the video device incompatible with the car stereo, processing received data into formatted data compatible with the car stereo, and transmitting formatted data to the car stereo for display thereon.	See element [1G] support.
92. An audio device integration	See preamble [1P] support.

Claim	Support
system comprising:	
a car stereo; a portable audio device external to the car stereo;	See element [1A] support.
an interface connected between the car stereo and the portable audio device,	See elements [1A] and [1D] support.
the interface including a microcontroller pre-programmed to execute:	See element [1E] support.
first pre-programmed means for generating a device presence signal and transmitting the signal to the car stereo to maintain the car stereo in an operational state;	See claim 6 support.
second pre-programmed means for	See element [1F] support.

Claim	Support
remotely controlling the portable audio device using the car stereo by receiving a control command from the car stereo in a format incompatible with the portable audio device, processing the control command into a formatted control command compatible with the portable audio device, and transmitting the formatted control command to the portable audio device for execution thereby; and	
means for transmitting audio from the	See element [1G] support.

Claim	Support
portable audio device to the car stereo.	
94. The apparatus of claim 92, wherein the portable audio device comprises a portable MP3 player.	See preamble [1P] support.
97. The apparatus of claim 92, wherein the second electrical connector comprises further comprising a bus connection established between the portable audio device and said interface. 98. The apparatus of claim 97, wherein the bus	See claims 23 and 24 support.

Appendix B - Claim Chart for US Patent No. 7,489,786 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
connection comprises a Universal Serial Bus (USB) connection.	

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

In these Infringement Contentions, Blitzsafe contends that at least the following claims of U.S. Patent No. 8,155,342 (“’342 patent”) identified below are infringed by the infotainment systems in accused Toyota automobiles. Blitzsafe does not concede that any claims of the ’342 patent that are not listed below are not infringed by the infotainment systems in accused Toyota automobiles. Moreover, the citations to certain documents and other information below are intended to be exemplary only and in no way foreclose Blitzsafe from citing or relying on additional documents, information, and/or testimony at a later time. These contentions are preliminary in nature, and an analysis of Toyota’s infotainment systems, internal documentation, source code, and/or testimony from relevant witnesses may be necessary to more fully and accurately describe the infringing features of its accused products. Accordingly, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions once such additional information is made available to Blitzsafe. Furthermore, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions as discovery in this case progresses; in view of the Court’s claim construction order(s); in view of any positions taken by Toyota, including but not limited to positions on claim construction, invalidity, and/or non-infringement; and in connection with the preparation and exchange of expert reports.

Claim	Support
49[P]. A multimedia device integration system, comprising:	Each accused Toyota automobile includes a device integration system, that supports integration of audio/video devices, such as freely lying smartphones and other smart devices connected via Bluetooth, as well as MP3 players (e.g., iPods and iPhones playing MP3 files).

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support
	<p>Entune™</p> <p>Entune now encompasses the complete audio display stack of your vehicle - including Bluetooth, voice recognition, USB, aux port, and your display screen. On select, premium audio head units, you have access to navigation and a rich set of Apps and Data Services, now referred to as the “Entune® App Suite”.</p> <p><i>See, e.g., Ex. A (www.toyota.com/entune) at 1.</i>¹</p>

¹ Blitzsafe has produced Ex. A, www.toyota.com/entune, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000004 - 9.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support				
	<div style="text-align: center;"> <h2>Learn About Entune™ Multimedia Units</h2> <p><small>*Available on select MY14 vehicles</small></p> </div> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> </tr> </table> <p style="margin-top: 20px;">See, e.g., Ex. A (www.toyota.com/entune) at 2.</p>	<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>
<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>		

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

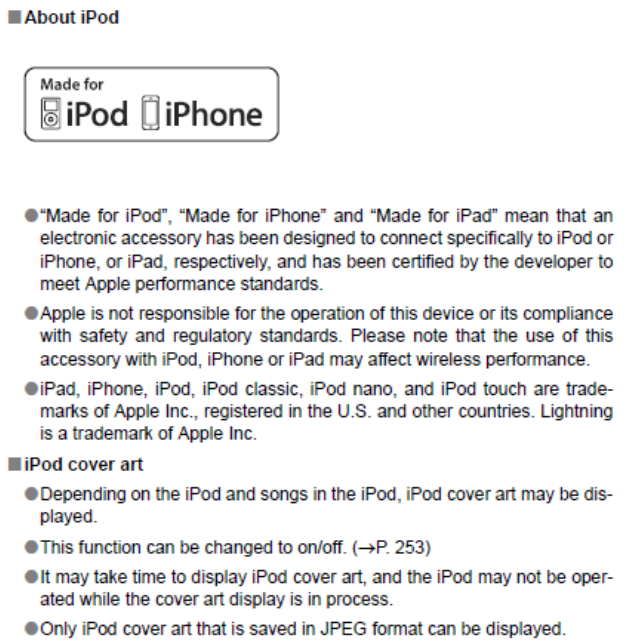
Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.²</i></p>

² Blitzsafe has produced Ex. C, 2015 Tacoma Navigation Manual simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000012 – 293. All pin-cites are to manual pages.

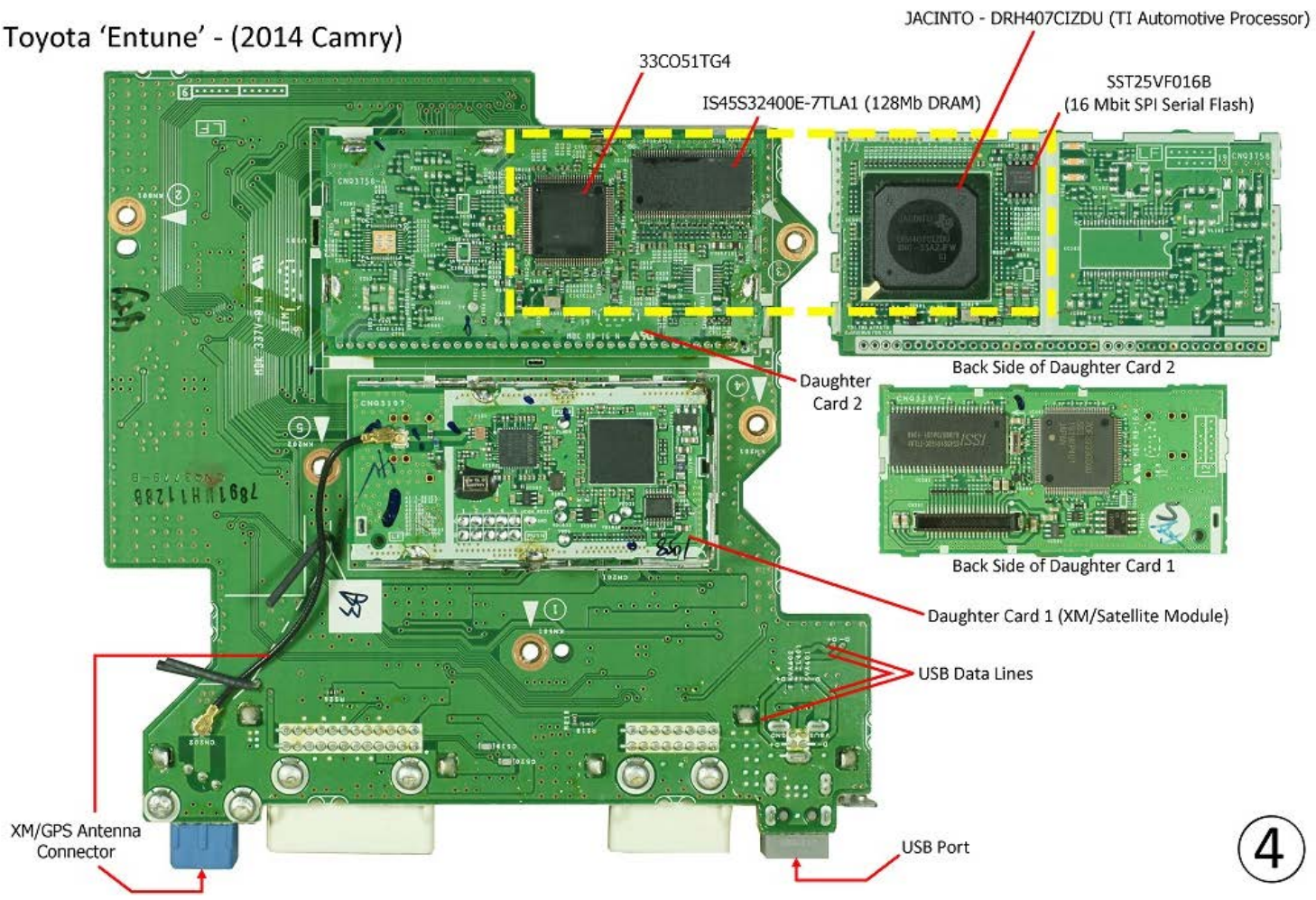
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none">• iPod touch (5th generation)• iPod touch (4th generation)• iPod touch (3rd generation)• iPod touch (2nd generation)• iPod touch (1st generation)• iPod classic• iPod with video• iPod nano (7th generation)• iPod nano (6th generation)• iPod nano (5th generation)• iPod nano (4th generation)• iPod nano (3rd generation)• iPod nano (2nd generation)• iPod nano (1st generation)• iPhone 5• iPhone 4S• iPhone 4• iPhone 3GS• iPhone 3G• iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p>■ About iPod</p> <p>Made for iPod iPhone</p> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. <p>■ iPod cover art</p> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. <p>3 Interior and exterior features</p> <p>See, e.g., Ex. B (2015 Tacoma Manual) at 271.³</p>
<p>[49A] an integration subsystem in communication with a car audio/video</p>	<p>Each device integration system of an accused Toyota automobile includes, among other things, an integration subsystem for connecting the car audio/video system to portable devices via a Bluetooth connection. The integration subsystem, which comprises at least the software and hardware shown in the yellow dashed boxes below, including at least a Renesas microcontroller and memory modules such as a Spansion flash memory module, is in communication with the car audio/video system. The integration subsystem channels audio signals to the car audio/video system from a portable device (such as an iPod, iPhone or other smart device) external to the car audio/video system.</p>

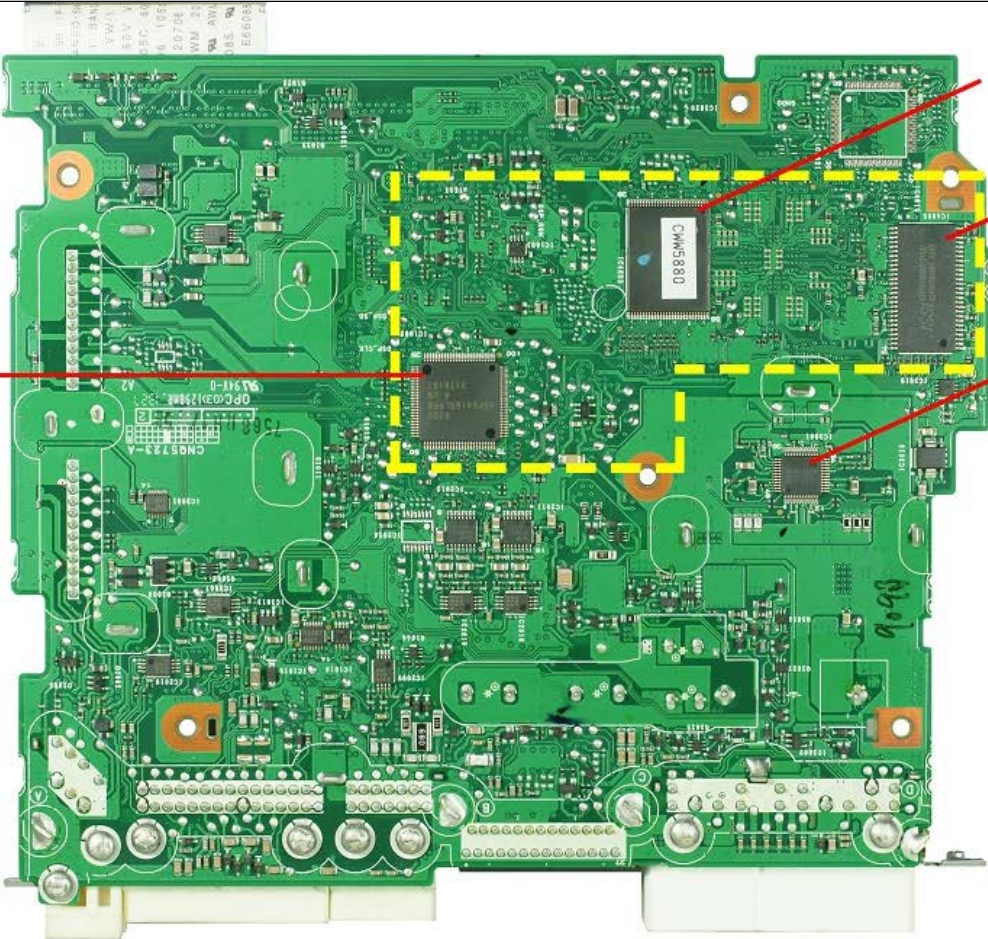
³ Blitzsafe has produced Ex. B, 2015 Tacoma Owner's Manual simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000294 - 883. All pin-cites are to manual pages.

Claim	Support
<p>system; and</p>	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>The diagram shows a green printed circuit board (PCB) for a Toyota 'Entune' infotainment system. It features several daughter cards and various integrated circuits. Key components are labeled with red arrows pointing to their locations on the board:</p> <ul style="list-style-type: none"> JACINTO - DRH407CIZDU (TI Automotive Processor): A large black square chip on the top daughter card. 33C051TG4: A component on the top daughter card. IS45S32400E-7TLA1 (128Mb DRAM): A component on the top daughter card. SST25VF016B (16 Mbit SPI Serial Flash): A component on the top daughter card. Daughter Card 2: A smaller PCB connected to the top daughter card. Back Side of Daughter Card 2: Shows the reverse side of the smaller PCB. Daughter Card 1 (XM/Satellite Module): A smaller PCB connected to the main board. Back Side of Daughter Card 1: Shows the reverse side of the XM/Satellite module PCB. USB Data Lines: A bundle of wires connecting the board to a USB port. USB Port: A white plastic connector at the bottom right. XM/GPS Antenna Connector: A blue plastic connector at the bottom left. <p>A circled number 4 is located in the bottom right corner of the diagram area.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

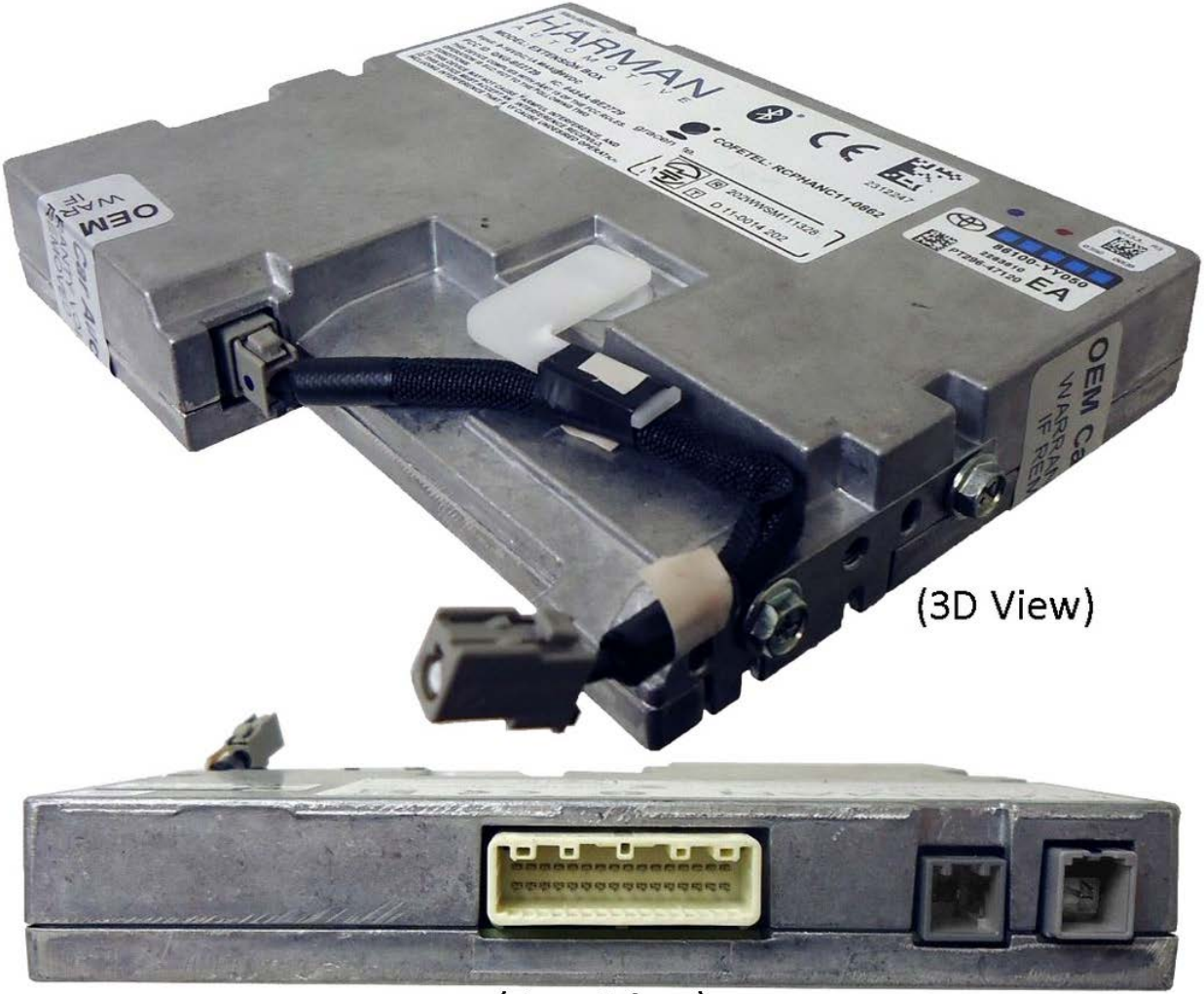
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module ROHM D00D0AWHFP (2A Line Voltage Regulator) AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) Pioneer PM9012A 313 T48 D35502F1 (A) EC-2140 1306EU703 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 Audio Tone Circuit TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil Speaker Output Connections Audio Power Amplifier AM, FM, & Powered Antennas <p>1</p>

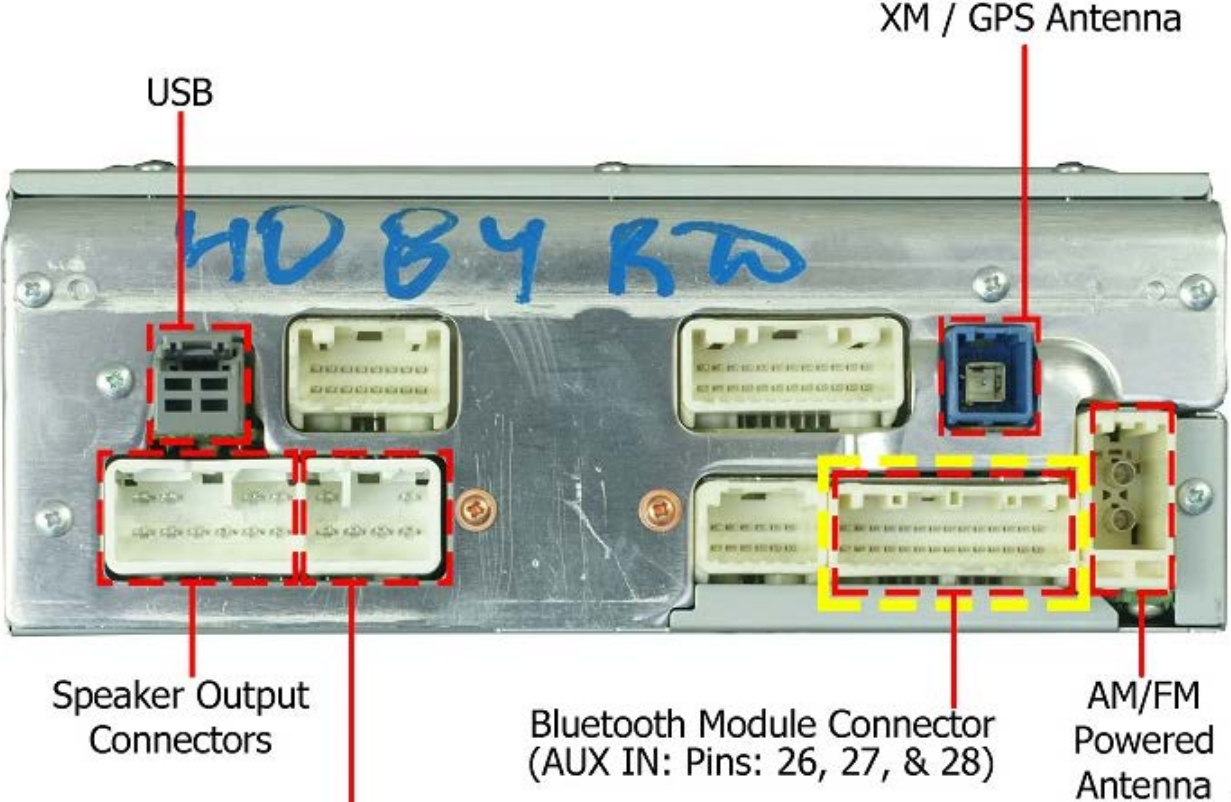
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>②</p>
<p>[49B] a first wireless interface in communication</p>	<p>Each device integration of accused Toyota automobiles includes a first wireless interface (a Bluetooth interface in the form of a Bluetooth controller and/or antenna and related circuitry, including at least the circuitry shown in the yellow dashed box below and the Bluetooth module) in communication with the integration subsystem. The Bluetooth interface of the car audio/video system is operable to establish a wireless link with Bluetooth interfaces (second wireless interfaces) of and/or in</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
with said integration subsystem, said first wireless interface establishing a wireless communication link with a second wireless interface in communication with a portable device external to the car audio/video system,	communication with one or more portable devices external to the car audio/video system.

Claim	Support
	<p style="text-align: center;">2012-2014 Toyota (OEM) Bluetooth/Gracenote Module</p>  <p style="text-align: right;">(3D View)</p> <p style="text-align: center;">(Rear View)</p>

Claim	Support
	<p style="text-align: center;">Toyota 'Entune' - (2014 Camry)</p>  <p style="text-align: center;"> USB XM / GPS Antenna </p> <p style="text-align: center;"> Speaker Output Connectors Bluetooth Module Connector (AUX IN: Pins: 26, 27, & 28) AM/FM Powered Antenna </p> <p style="text-align: center;"> 12v, GND, Pwr. Antenna, Amp Turn On 5 </p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <p>ROHM D00D0AWHFP (2A Line Voltage Regulator)</p> <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family)</p> <p>D35502F1 (A) EC-2140 1306EU703</p> <p>Audio Tone Circuit</p> <p>Speaker Output Connections</p> <p>Audio Power Amplifier</p> <p>Bluetooth Module Connector</p> <p>AM, FM, & Powered Antennas</p> <p>1</p> <p>Ribbon Cable Coupling Upper Circuit Board</p> <p>Ribbon Cable Coupling Display Module</p> <p>AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters)</p> <p>Pioneer PM9012A 313 T48</p> <p>AM/FM Radio Tuner</p> <p>2740 D09 JRC (Dual Channel Op Amp)</p> <p>Pioneer PEG804A</p> <p>416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line)</p> <p>Antenna Impedance Matching Coil</p>

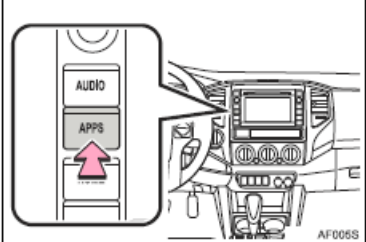



Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Entune™</p> <p>Entune now encompasses the complete audio display stack of your vehicle - including Bluetooth, voice recognition, USB, aux port, and your display screen. On select, premium audio head units, you have access to navigation and a rich set of Apps and Data Services, now referred to as the “Entune® App Suite”.</p> <p><i>See, e.g., Ex. A (www.toyota.com/entune) at 1.</i></p>

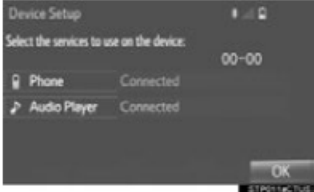
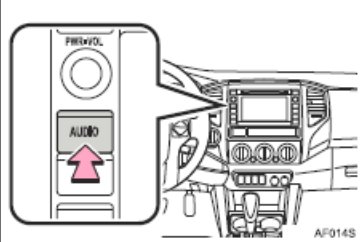

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support				
	<div style="text-align: center;"> <h2>Learn About Entune™ Multimedia Units</h2> <p><small>*Available on select MY14 vehicles</small></p> </div> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> </tr> </table> <p style="margin-top: 20px;">See, e.g., Ex. A (www.toyota.com/entune) at 2.</p>	<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>
<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>		


Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

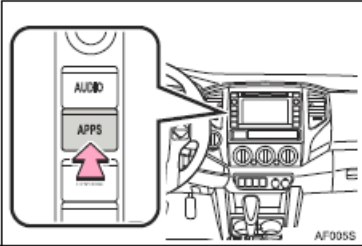


Claim	Support
	<div style="text-align: right; margin-bottom: 10px;">Support</div> <div style="background-color: #cccccc; padding: 5px; margin-bottom: 10px;">2. Bluetooth® SETTINGS</div> <div style="background-color: #cccccc; padding: 5px; margin-bottom: 10px;">1. REGISTERING/CONNECTING Bluetooth® DEVICE</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; background-color: #cccccc; margin: 0;">REGISTERING A Bluetooth® PHONE FOR THE FIRST TIME</p> <p>To use the hands-free system, it is necessary to register a Bluetooth® phone with the system. Once the phone has been registered, it is possible to use the hands-free system. For details about registering a Bluetooth® device: →P.51</p> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ol style="list-style-type: none"> 1 Turn the Bluetooth® connection setting of your cellular phone on. 2 Press the “APPS” button. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div> <ol style="list-style-type: none"> 3 Select “Phone”. <ul style="list-style-type: none"> ● Operations up to this point can also be performed by pressing the  switch on the steering wheel or  button on the instrument panel. </div> <div style="width: 45%;"> <ol style="list-style-type: none"> 4 Select “Yes” to register a phone. 5 When this screen is displayed, search for the device name displayed on this screen on the screen of your Bluetooth® device. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div> <ol style="list-style-type: none"> 6 Register the Bluetooth® device using your Bluetooth® device. <ul style="list-style-type: none"> ● For details about operating the Bluetooth® device, see the manual that comes with it. ● To cancel the registration, select “Cancel”. ● A PIN-code is not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the type of Bluetooth® device being connected, a message confirming registration may be displayed on the Bluetooth® device’s screen. Respond and operate the Bluetooth® device according to the confirmation message. </div> </div> <div style="text-align: right; margin-top: 20px;"> <div style="background-color: #cccccc; padding: 2px 5px; font-weight: bold;">2</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">BASIC FUNCTION</div> </div>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>2. Bluetooth® SETTINGS</p> <p>7 Check that the screen is displayed when registration is complete.</p> <ul style="list-style-type: none"> ● The system waits for connection requests coming from the registered device. ● At this stage, the Bluetooth® functions are not yet available. <p>8 Select “OK” when the connection status changes from “Connecting...” to “Connected”.</p>  <p>● If an error message is displayed, follow the guidance on the screen to try again.</p> <div style="border: 1px solid black; padding: 5px;"> <p>REGISTERING A Bluetooth® AUDIO PLAYER FOR THE FIRST TIME</p> </div> <p>To use the Bluetooth® audio, it is necessary to register an audio player with the system. Once the player has been registered, it is possible to use the Bluetooth® audio. This operation cannot be performed while driving. For details about registering a Bluetooth® device: →P.51</p> <ol style="list-style-type: none"> 1 Turn the Bluetooth® connection setting of your audio player on. ● This function is not available when the Bluetooth® connection setting of your audio player is set to off. <p>2 Press the “AUDIO” button.</p>  <ol style="list-style-type: none"> 3 Select “Source” on the audio control screen. 4 Select “ Audio”. 5 Select “Yes” to register a audio player. 6 Follow the steps in “REGISTERING A Bluetooth® DEVICE” from “STEP 2”. (→P.51)

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support																																	
	2. Bluetooth® SETTINGS																																	
	PROFILES																																	
	This system supports the following services.																																	
	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Bluetooth® Device</th> <th style="background-color: #cccccc;">Spec</th> <th style="background-color: #cccccc;">Function</th> <th style="background-color: #cccccc;">Requirements</th> <th style="background-color: #cccccc;">Recommendations</th> </tr> </thead> <tbody> <tr> <td style="background-color: #cccccc;">Bluetooth® Phone/Bluetooth® Audio Player</td> <td>Bluetooth® Specification</td> <td>Registering a Bluetooth® device</td> <td>Ver. 2.0</td> <td>Ver. 3.0 +EDR</td> </tr> </tbody> </table> <div style="margin-left: 10px; writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; font-weight: bold;">2 BASIC FUNCTION</div>	Bluetooth® Device	Spec	Function	Requirements	Recommendations	Bluetooth® Phone/Bluetooth® Audio Player	Bluetooth® Specification	Registering a Bluetooth® device	Ver. 2.0	Ver. 3.0 +EDR																							
Bluetooth® Device	Spec	Function	Requirements	Recommendations																														
Bluetooth® Phone/Bluetooth® Audio Player	Bluetooth® Specification	Registering a Bluetooth® device	Ver. 2.0	Ver. 3.0 +EDR																														
	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="background-color: #cccccc;">Bluetooth® Device</th> <th style="background-color: #cccccc;">Profile</th> <th style="background-color: #cccccc;">Function</th> <th style="background-color: #cccccc;">Requirements</th> <th style="background-color: #cccccc;">Recommendations</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="background-color: #cccccc;">Bluetooth® Phone</td> <td>HFP (Hands-Free Profile)</td> <td>Hands-free system</td> <td>Ver. 1.0</td> <td>Ver. 1.6</td> </tr> <tr> <td>OPP (Object Push Profile)</td> <td rowspan="2">Transferring the contacts</td> <td>Ver. 1.1</td> <td>Ver. 1.2</td> </tr> <tr> <td>PBAP (Phone Book Access Profile)</td> <td>Ver. 1.0</td> <td>Ver. 1.1</td> </tr> <tr> <td>MAP (Message Access Profile)</td> <td>Bluetooth® phone message</td> <td>—</td> <td>Ver. 1.0</td> </tr> <tr> <td>SPP (Serial Port Profile)</td> <td>Entune App Suite</td> <td>—</td> <td>Ver. 1.1</td> </tr> <tr> <td rowspan="2" style="background-color: #cccccc;">Bluetooth® Audio Player</td> <td>A2DP (Advanced Audio Distribution Profile)</td> <td rowspan="2">Bluetooth® audio system</td> <td>Ver. 1.0</td> <td>Ver. 1.2</td> </tr> <tr> <td>AVRCP (Audio/Video Remote Control Profile)</td> <td>Ver. 1.0</td> <td>Ver. 1.4</td> </tr> </tbody> </table>	Bluetooth® Device	Profile	Function	Requirements	Recommendations	Bluetooth® Phone	HFP (Hands-Free Profile)	Hands-free system	Ver. 1.0	Ver. 1.6	OPP (Object Push Profile)	Transferring the contacts	Ver. 1.1	Ver. 1.2	PBAP (Phone Book Access Profile)	Ver. 1.0	Ver. 1.1	MAP (Message Access Profile)	Bluetooth® phone message	—	Ver. 1.0	SPP (Serial Port Profile)	Entune App Suite	—	Ver. 1.1	Bluetooth® Audio Player	A2DP (Advanced Audio Distribution Profile)	Bluetooth® audio system	Ver. 1.0	Ver. 1.2	AVRCP (Audio/Video Remote Control Profile)	Ver. 1.0	Ver. 1.4
Bluetooth® Device	Profile	Function	Requirements	Recommendations																														
Bluetooth® Phone	HFP (Hands-Free Profile)	Hands-free system	Ver. 1.0	Ver. 1.6																														
	OPP (Object Push Profile)	Transferring the contacts	Ver. 1.1	Ver. 1.2																														
	PBAP (Phone Book Access Profile)		Ver. 1.0	Ver. 1.1																														
	MAP (Message Access Profile)	Bluetooth® phone message	—	Ver. 1.0																														
	SPP (Serial Port Profile)	Entune App Suite	—	Ver. 1.1																														
Bluetooth® Audio Player	A2DP (Advanced Audio Distribution Profile)	Bluetooth® audio system	Ver. 1.0	Ver. 1.2																														
	AVRCP (Audio/Video Remote Control Profile)		Ver. 1.0	Ver. 1.4																														
	<p>INFORMATION</p> <ul style="list-style-type: none"> ● If your cellular phone does not support HFP, registering the Bluetooth® phone or using OPP, PBAP, MAP or SPP profiles individually will not be possible. ● If the connected Bluetooth® device version is older than recommended or incompatible, the Bluetooth® device function may not work properly. ● Refer to http://www.toyota.com/entune/ to find approved Bluetooth® phones for this system. 																																	
	 <p>The Bluetooth® word mark and logos are registered trademarks owned Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.</p>																																	

Claim	Support												
	<p>2. Bluetooth® SETTINGS</p> <p>2. SETTING Bluetooth® DETAILS</p> <p>1 Press the “APPS” button.</p>  <p>2 Select “Setup”.</p> <p>3 Select “Bluetooth”.</p> <p>4 Select the desired item to be set.</p>  <p>“Bluetooth* Setup” SCREEN</p>  <table border="1"> <thead> <tr> <th>Function</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Registering a Bluetooth® device</td> <td>51</td> </tr> <tr> <td>Deleting a Bluetooth® device</td> <td>52</td> </tr> <tr> <td>Connecting a Bluetooth® device</td> <td>52</td> </tr> <tr> <td>Editing the Bluetooth® device information</td> <td>54</td> </tr> <tr> <td>Bluetooth® system settings</td> <td>55</td> </tr> </tbody> </table> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>DISPLAYING THE “Bluetooth* Setup” SCREEN IN A DIFFERENT WAY</p> <p>1 Press the “APPS” button.</p> <p>2 Select “Setup”.</p> <p>3 Select “Phone”.</p> <p>4 Select “Connect Phone”.</p>	Function	Page	Registering a Bluetooth® device	51	Deleting a Bluetooth® device	52	Connecting a Bluetooth® device	52	Editing the Bluetooth® device information	54	Bluetooth® system settings	55
Function	Page												
Registering a Bluetooth® device	51												
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Connecting a Bluetooth® device	52												
Editing the Bluetooth® device information	54												
Bluetooth® system settings	55												

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles


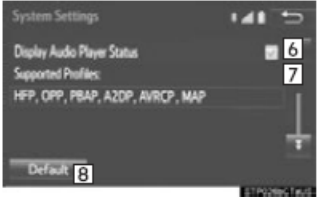
Claim	Support
	<div style="text-align: right; font-size: small; margin-bottom: 10px;">2. Bluetooth® SETTINGS</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> REGISTERING A Bluetooth® DEVICE </div> <p>Up to 5 Bluetooth® devices can be registered.</p> <p>Bluetooth® compatible phones (HFP) and audio players (AVP) can be registered simultaneously.</p> <p>This operation cannot be performed while driving.</p> <ol style="list-style-type: none"> 1 Display the "Bluetooth® Setup" screen. (→P.50) 2 Select "Add". <ul style="list-style-type: none"> ▶ When another Bluetooth® device is connected ● To disconnect the Bluetooth® device, select "Yes". ▶ When 5 Bluetooth® devices have already been registered ● A registered device needs to be replaced. Select "Yes", and select the device to be replaced. 3 When this screen is displayed, search for the device name displayed on this screen on the screen of your Bluetooth® device. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="font-size: x-small;">Add Device</p> <p style="font-size: x-small;">Waiting...</p> <p style="font-size: x-small;">Please search for the device below using your Bluetooth device.</p> <p style="font-size: x-small;">Device Name : ○○○○○</p> <p style="font-size: x-small;">Bluetooth Address : 00000</p> <p style="font-size: x-small;">Bluetooth PIN : 0000</p> <p style="text-align: center; font-size: x-small;">Cancel</p> </div> <ul style="list-style-type: none"> ● For details about operating the Bluetooth® device, see the manual that comes with it. ● To cancel the registration, select "Cancel". <ol style="list-style-type: none"> 4 Register the Bluetooth® device using your Bluetooth® device. <ul style="list-style-type: none"> ● A PIN-code is not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the type of Bluetooth® device being connected, a message confirming registration may be displayed on the Bluetooth® device's screen. Respond and operate the Bluetooth® device according to the confirmation message. 5 Check that the following screen is displayed when registration is complete. <ul style="list-style-type: none"> ● The system waits for connection requests coming from the registered device. ● At this stage, the Bluetooth® functions are not yet available. 6 Select "OK" when the connection status changes from "Connecting..." to "Connected". <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="font-size: x-small;">Device Setup</p> <p style="font-size: x-small;">Select the services to use on the device: 00-00</p> <p style="font-size: x-small;">Phone Connected</p> <p style="font-size: x-small;">Audio Player Connected</p> <p style="text-align: right; font-size: x-small;">OK</p> </div> <ul style="list-style-type: none"> ● If an error message is displayed, follow the guidance on the screen to try again. <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <div style="text-align: right; font-size: x-small; margin-top: 10px;">2 BASIC FUNCTION</div>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="background-color: #cccccc; padding: 5px;"> <p>CONNECTING A Bluetooth® DEVICE</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Up to 5 Bluetooth® devices (Phones (HFP) and audio players (AVP)) can be registered.</p> <p>If more than 1 Bluetooth® device has been registered, select which device to connect to.</p> </div> <ol style="list-style-type: none"> <li>1 Display the "Bluetooth* Setup" screen. (→P.50) <li>2 Select the device to be connected. <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <ul style="list-style-type: none"> <li>● Supported profile icons will be displayed. <li>☐ : Phone <li>☐ : Audio player <li>☐ : Phone/Entune App Suite (Entune Premium Audio only) <li>● Supported profile icons for currently connected devices will illuminate. <li>● Dimmed icons can be selected to connect to the phone/audio function directly. <div style="background-color: #cccccc; padding: 5px;"> <ul style="list-style-type: none"> <li>● If the desired Bluetooth® device is not on the list, select "Add" to register the device. (→P.51) </div> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="text-align: right; margin-bottom: 10px;">2. Bluetooth® SETTINGS</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>INFORMATION</p> <ul style="list-style-type: none"> ● It may take time if the device connection is carried out during Bluetooth® audio playback. ● Depending on the type of Bluetooth® device being connected, it may be necessary to perform additional steps on the device. <p>AUTO CONNECTION MODE</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> To turn auto connection mode on, set "Bluetooth* Power" to on. (→P.55) Leave the Bluetooth® device in a location where the connection can be established. </div> <ul style="list-style-type: none"> ● When the engine switch is in the "ACC" or "ON" position, the system searches for a nearby registered device. ● The system will connect with the registered device that was last connected, if it is nearby. <p>CONNECTING MANUALLY</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> When the auto connection has failed or "Bluetooth* Power" is turned off, it is necessary to connect Bluetooth® manually. </div> <ol style="list-style-type: none"> 1 Follow the steps in "CONNECTING A Bluetooth® DEVICE" from "STEP 2". (→P.52) <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <div style="width: 45%;"> <p>RECONNECTING THE Bluetooth® PHONE</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> If a Bluetooth® phone is disconnected due to poor reception from the Bluetooth® network when the engine switch is in the "ACC" or "ON" position, the system automatically reconnects the Bluetooth® phone. </div> <ul style="list-style-type: none"> ● If a Bluetooth® phone is disconnected on purpose, such as turning it off, this does not happen. Reconnect the Bluetooth® phone manually. </div> </div> <div style="text-align: center; margin-top: 10px;"> 2 BASIC FUNCTION </div>

Claim	Support
	<div style="text-align: right; margin-bottom: 10px;">2. Bluetooth® SETTINGS</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>CHANGING A DEVICE NAME</p> <ol style="list-style-type: none"> 1 Select "Device Name". 2 Enter the name and select "OK". <p>INFORMATION</p> <ul style="list-style-type: none"> ● Even if the device name is changed, the name registered in your Bluetooth® device does not change. <p>SETTING AUDIO PLAYER CONNECTION METHOD</p> <ol style="list-style-type: none"> 1 Select "Connect Audio Player From". 2 Select the desired connection method. "Vehicle": Select to connect the audio system to the audio player. "Device": Select to connect the audio player to the audio system. <ul style="list-style-type: none"> ● Depending on the audio player, the "Vehicle" or "Device" connection method may be best. As such, refer to the manual that comes with the audio player. ● To reset the connection method, select "Default". </div> <div style="width: 50%;"> <p>"Bluetooth* Settings" SCREEN</p> <p>The Bluetooth® settings can be confirmed and changed.</p> <ol style="list-style-type: none"> 1 Display the "Bluetooth* Setup" screen. (→P.50) 2 Select "System Settings". 3 Select the desired item to be set.   <p style="text-align: right; font-size: small;">*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> </div> <div style="text-align: right; margin-top: 20px; font-size: small; font-weight: bold;">2 BASIC FUNCTION</div>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support																											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Information</th> <th style="text-align: center;">Page</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Select to set Bluetooth® connection on/off.</td> <td style="text-align: center;">56</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Displays system name. Can be changed to a desired name.</td> <td style="text-align: center;">56</td> </tr> <tr> <td style="text-align: center;">3</td> <td>PIN-code used when the Bluetooth® device was registered. Can be changed to a desired code.</td> <td style="text-align: center;">56</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Device address is unique to the device and cannot be changed.</td> <td style="text-align: center;">—</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Select to set the phone connection status display on/off.</td> <td style="text-align: center;">—</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Select to set the connection status display of the audio player on/off.</td> <td style="text-align: center;">—</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Compatibility profile of the system device.</td> <td style="text-align: center;">—</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Select to reset all setup items.</td> <td style="text-align: center;">—</td> </tr> </tbody> </table> <p><i>See, e.g.</i>, Ex. C (2015 Tacoma Navigation Manual) at 41-43, 50-56.</p> <p><i>See, e.g.</i>, Ex. B (2015 Tacoma Manual) at 282-291, 297-301.</p> <p><i>See, e.g.</i>, video (Entune Audio - How to Pair and Remove a Bluetooth Phone): https://www.youtube.com/watch?v=S1VbYE0E26U.</p>	No.	Information	Page	1	Select to set Bluetooth® connection on/off.	56	2	Displays system name. Can be changed to a desired name.	56	3	PIN-code used when the Bluetooth® device was registered. Can be changed to a desired code.	56	4	Device address is unique to the device and cannot be changed.	—	5	Select to set the phone connection status display on/off.	—	6	Select to set the connection status display of the audio player on/off.	—	7	Compatibility profile of the system device.	—	8	Select to reset all setup items.	—
No.	Information	Page																										
1	Select to set Bluetooth® connection on/off.	56																										
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7	Compatibility profile of the system device.	—																										
8	Select to reset all setup items.	—																										
[49C] wherein said integration subsystem obtains, using said wireless communication	After establishing a wireless link with the portable device, information about an audio file stored on the portable device (such as the audio itself, as well as artist, album, and track information) is communicated wirelessly from the portable device to the integration subsystem via the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and another Bluetooth interface in communication with and part of the portable device). The integration sub-system then transmits this information to the car audio/video system for subsequent display of the information on a display of the car audio/video system.																											

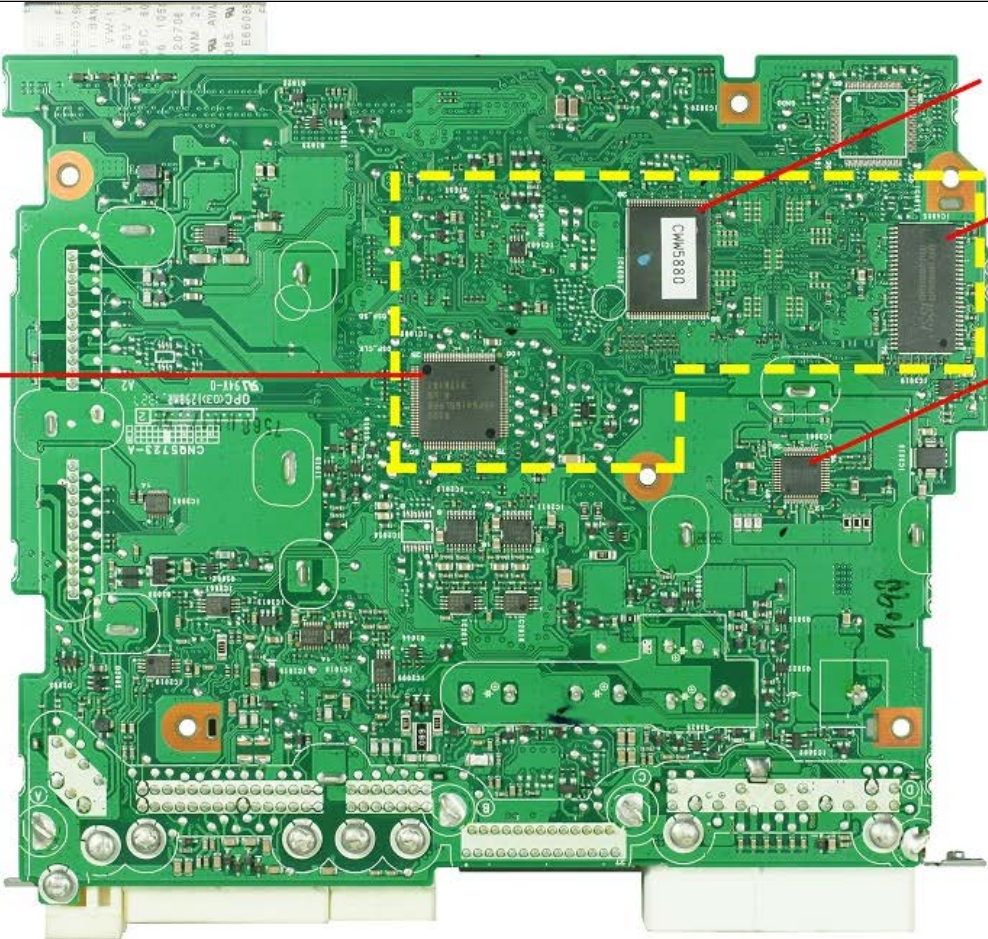
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

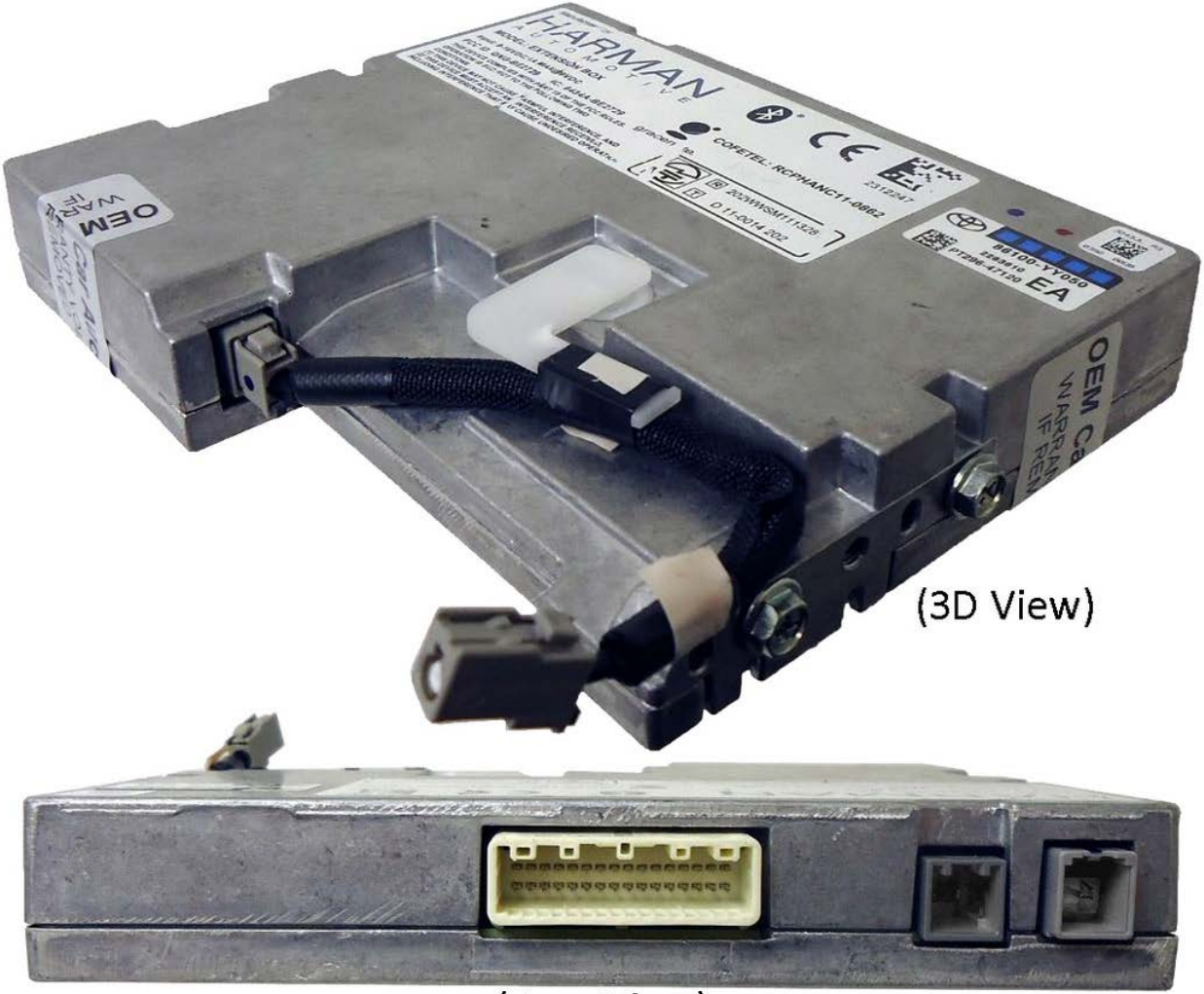
Claim	Support
<p>link, information about an audio file stored on the portable device, transmits the information to the car audio/video system for subsequent display of the information on a display of the car audio/video system,</p>	<p style="text-align: center;">Toyota 'Entune' - (2014 Camry)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p style="text-align: right;">④</p>

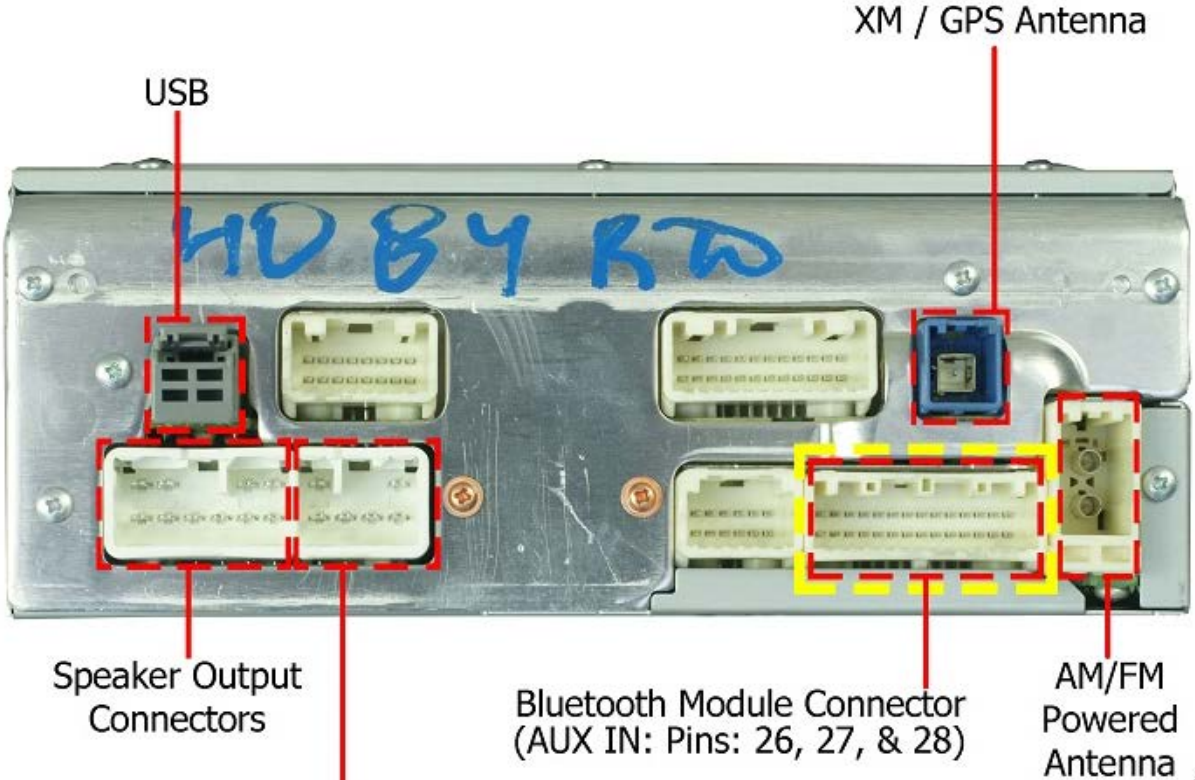
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <p>Ribbon Cable Coupling Upper Circuit Board</p> <p>Ribbon Cable Coupling Display Module</p> <p>ROHM D00D0AWHFP (2A Line Voltage Regulator)</p> <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family)</p> <p>D35502F1 (A) EC-2140 1306EU703</p> <p>Audio Tone Circuit</p> <p>Speaker Output Connections</p> <p>Audio Power Amplifier</p> <p>AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters)</p> <p>Pioneer PM9012A 313 T48</p> <p>AM/FM Radio Tuner</p> <p>2740 D09 JRC (Dual Channel Op Amp)</p> <p>Pioneer PEG804A</p> <p>416SP 3E3 60L1</p> <p>TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line)</p> <p>Antenna Impedance Matching Coil</p> <p>AM, FM, & Powered Antennas</p> <p>1</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

Claim	Support
	<p style="text-align: center;">2012-2014 Toyota (OEM) Bluetooth/Gracenote Module</p>  <p style="text-align: right;">(3D View)</p> <p style="text-align: center;">(Rear View)</p>

Claim	Support
	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>XM / GPS Antenna</p> <p>USB</p> <p>HD BY RTW</p> <p>Speaker Output Connectors</p> <p>Bluetooth Module Connector (AUX IN: Pins: 26, 27, & 28)</p> <p>AM/FM Powered Antenna</p> <p>12v, GND, Pwr. Antenna, Amp Turn On</p> <p>5</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

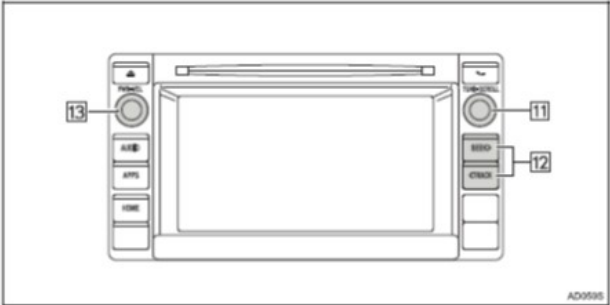
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> ROHM D0D0AWHFP (2A Line Voltage Regulator) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) D35502F1 (A) EC-2140 1306EU703 Audio Tone Circuit Speaker Output Connections Audio Power Amplifier <p>Support</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Pioneer PM9012A 313 T48 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil Bluetooth Module Connector AM, FM, & Powered Antennas <p>1</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

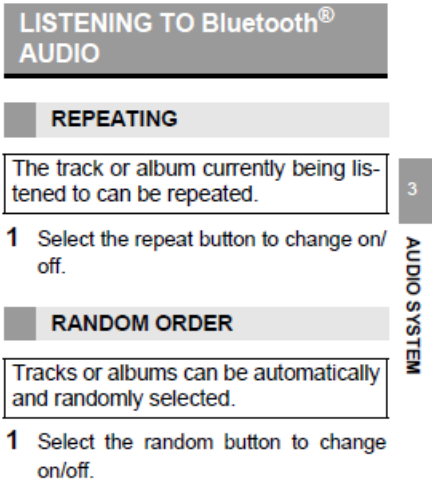
Claim	Support																																																																								
	<p>iOS: Supported Bluetooth profiles</p> <p>iPhone, iPad, and iPod touch support multiple Bluetooth profiles with the latest version of iOS. You can learn the differences in Bluetooth-profile support from one device to the next.</p> <p>The following table lists supported Bluetooth profiles by device for the latest version of iOS.</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Hands-Free Profile (HFP 1.6)</th> <th>Phone Book Access Profile (PBAP)</th> <th>Advanced Audio Distribution Profile (A2DP)</th> <th>Audio/Video Remote Control Profile (AVRCP 1.4)</th> <th>Personal Area Network Profile (PAN)</th> <th>Human Interface Device Profile (HID)</th> <th>Message Access Profile (MAP)</th> </tr> </thead> <tbody> <tr> <td>iPhone 4 and later</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>iPhone 3GS</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPhone 3G</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> </tr> <tr> <td>Original iPhone</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>iPad 2 and later</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPad (1st generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (4th generation and later)</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (2nd and 3rd generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> </tbody> </table> <p><i>See, e.g., Ex. D (Apple iPhone webpage).</i>⁴</p>	Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)	iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓	iPhone 3GS	✓	✓	✓	✓	✓	✓	-	iPhone 3G	✓	✓	✓	✓	✓	-	-	Original iPhone	✓	✓	-	-	-	-	-	iPad 2 and later	✓	-	✓	✓	✓	✓	-	iPad (1st generation)	-	-	✓	✓	✓	✓	-	iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-	iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-
Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)																																																																		
iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓																																																																		
iPhone 3GS	✓	✓	✓	✓	✓	✓	-																																																																		
iPhone 3G	✓	✓	✓	✓	✓	-	-																																																																		
Original iPhone	✓	✓	-	-	-	-	-																																																																		
iPad 2 and later	✓	-	✓	✓	✓	✓	-																																																																		
iPad (1st generation)	-	-	✓	✓	✓	✓	-																																																																		
iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-																																																																		
iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-																																																																		

⁴ Blitzsafe has produced Ex. D, Apple iPhone webpage, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000001 - 3.

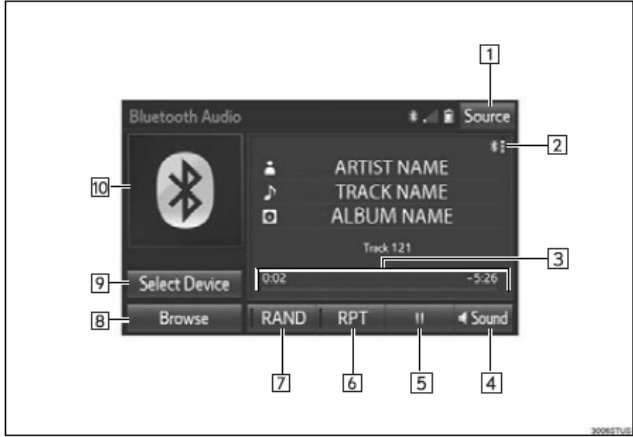
Claim	Support
	<div> <p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> </div> <div> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <div> <p>OVERVIEW</p> </div> <div> <p>Select “Audio” on the “Select Audio Source” screen. (→P.73) Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <div> <p>CONTROL SCREEN</p> </div> <div> <p>The screenshot shows the 'Bluetooth Audio' control interface. It features a Bluetooth symbol (10) on the left, a 'Select Device' button (9), and a 'Browse' button (8). The main display area shows 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME' (2), with 'Track 121' and a progress bar (3) below. At the bottom, there are control buttons: 'RAND' (7), 'RPT' (6), a play/pause button (5), and a 'Sound' icon (4). The top right corner shows signal strength and 'Source' (1).</p> </div>

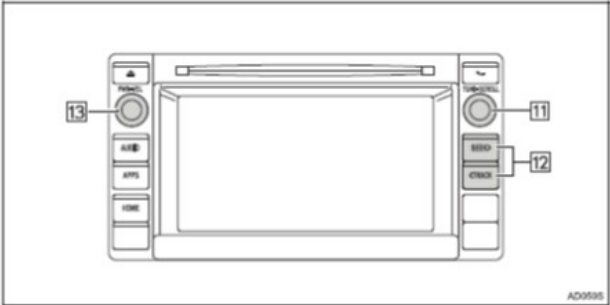
Claim	Support																												
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr style="border: 2px solid red;"> <td>10</td> <td> <ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>105</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. 	11	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	12	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
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Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

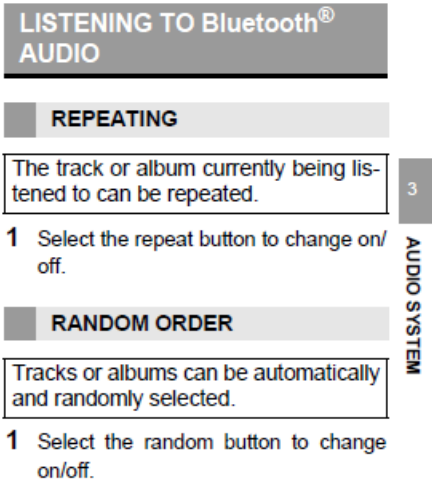
Claim	Support
	 <p>The screenshot shows a user interface for a car's infotainment system. At the top, it says "LISTENING TO Bluetooth® AUDIO". Below that, there is a "REPEATING" button. A text box explains: "The track or album currently being listened to can be repeated." Below this is a numbered instruction: "1 Select the repeat button to change on/off." Further down, there is a "RANDOM ORDER" button. Another text box explains: "Tracks or albums can be automatically and randomly selected." Below this is another numbered instruction: "1 Select the random button to change on/off." On the right side of the interface, there is a vertical label "AUDIO SYSTEM" with a small number "3" next to it.</p> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 104-106.</p> <p>See, e.g., Ex. B (2015 Tacoma Manual) at 304.</p> <p>See video (Toyota Entune Streaming Bluetooth Audio Toyota): https://www.youtube.com/watch?v=z3-yLLqtEq8.</p>
<p>[49D] said integration subsystem ... instructs the portable device to play the audio file in response to a user selecting the audio file using controls of the</p>	<p>With respect to each device integration system of the accused Toyota automobiles, a user can input commands via buttons and controls of the car audio/video system to (i) select a track or album; (ii) fast forward and reverse a track; and (iii) play and pause a track. When a user selects one of these commands, the integration subsystem instructs the portable device to play, pause or skip the audio file, which is received by the integration subsystem via the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and another in communication with and part of the portable device). The audio file is then played via the car's speakers.</p>

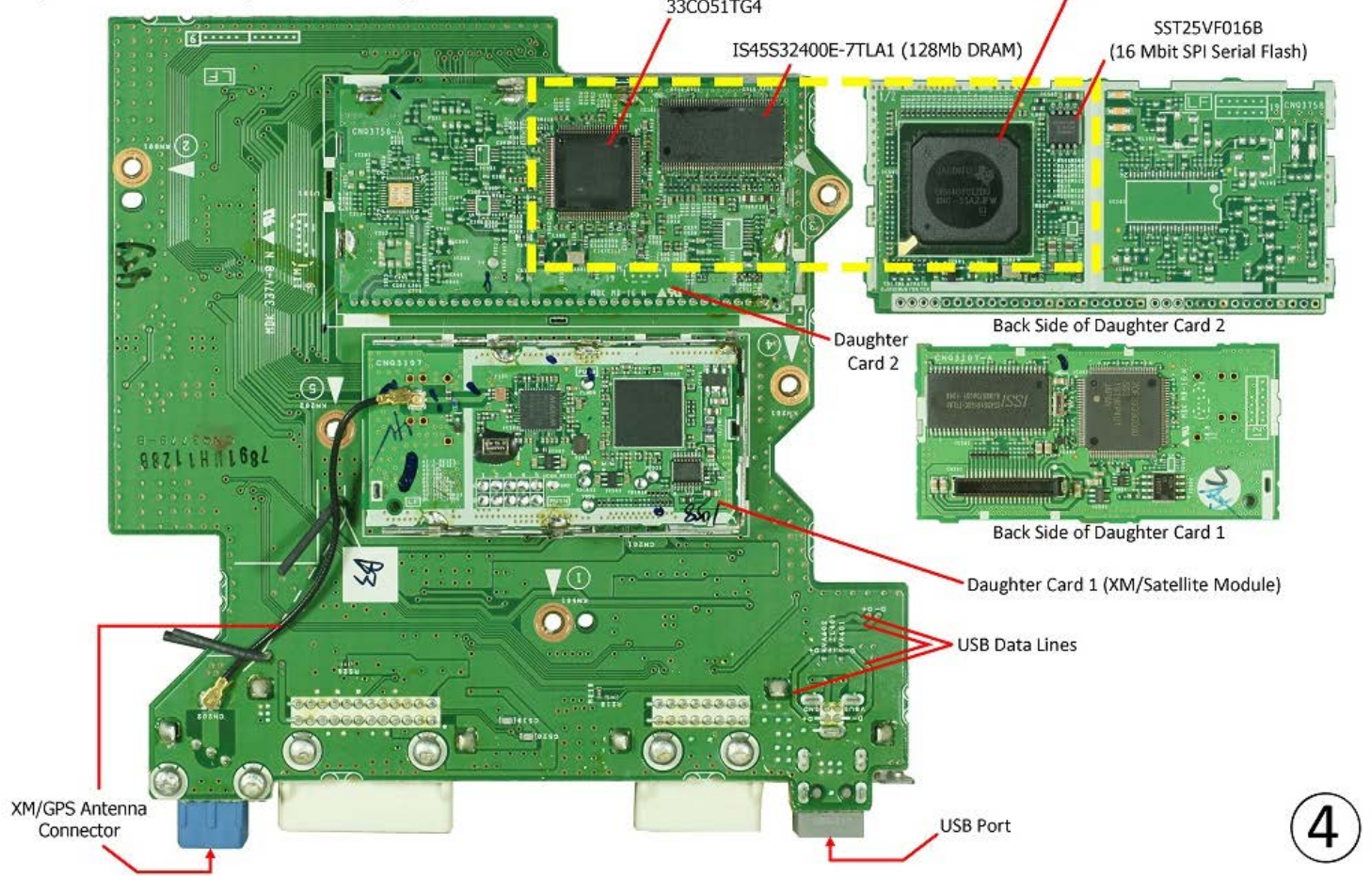
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>car audio/video system, and receives audio generated by the portable device over said wireless communication link for playing on the car audio/video system.</p>	<p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication.</p> <p>This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>OVERVIEW</p> <p>Select “Audio” on the “Select Audio Source” screen. (→P.73)</p> <p>Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> <p>CONTROL SCREEN</p> 

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Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

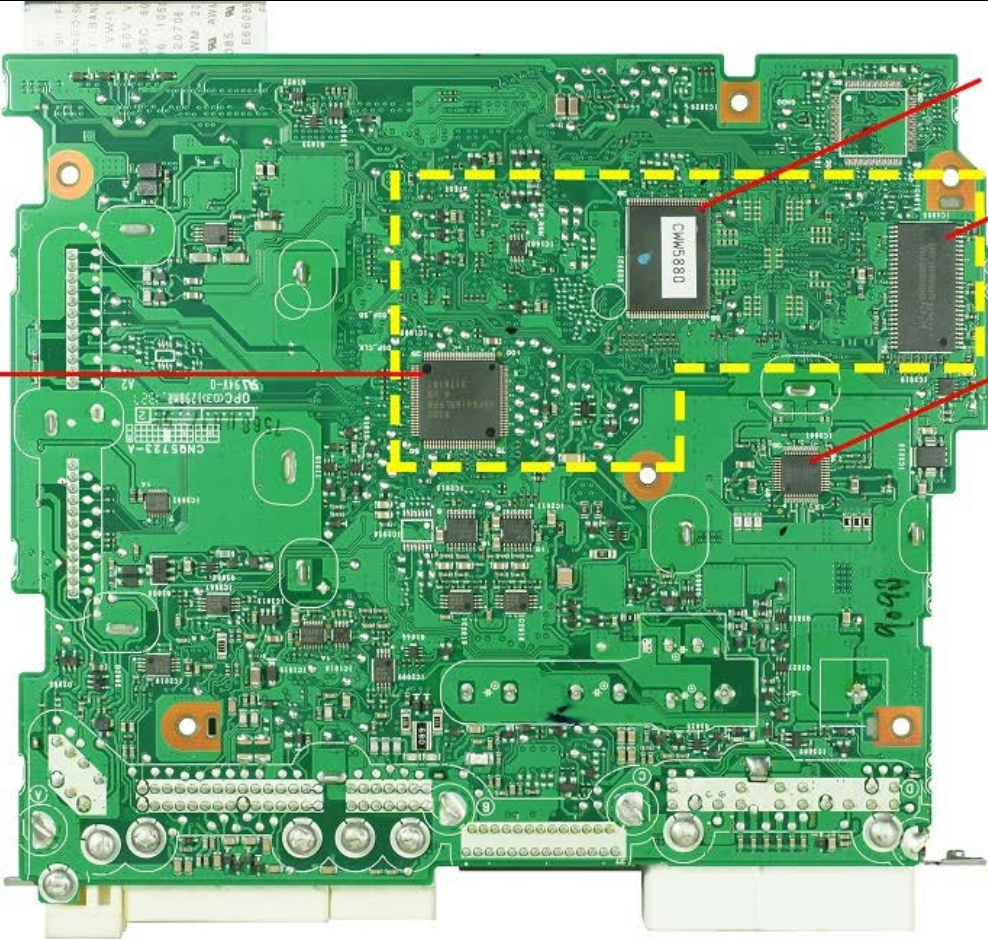
Claim	Support
	 <p>The track or album currently being listened to can be repeated.</p> <p>1 Select the repeat button to change on/off.</p> <p>Tracks or albums can be automatically and randomly selected.</p> <p>1 Select the random button to change on/off.</p> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 104-106.</p> <p>See, e.g., Ex. B (2015 Tacoma Manual) at 304.</p> <p>See video (Toyota Entune Streaming Bluetooth Audio Toyota): https://www.youtube.com/watch?v=z3-yLLqtEq8.</p>
<p>50. The system of claim 49, wherein said integration subsystem is positioned within the car audio/video system.</p>	<p>Each car audio/video system of the accused Toyota automobiles includes the integration subsystem for connecting to external portable devices (such as iPhones) via a wireless Bluetooth interface. Once connected, the portable device may be controlled directly from the car audio/video system. Commands, which are received from buttons and other controls of the car audio/video system, may be communicated wirelessly via the Bluetooth interface to the portable device. The portable device then responds to the received commands by channeling audio and other information (such as track name, artist, album, etc.) to the car audio/video system by way of the first and second wireless interfaces and the integration subsystem.</p>

Claim	Support
	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>


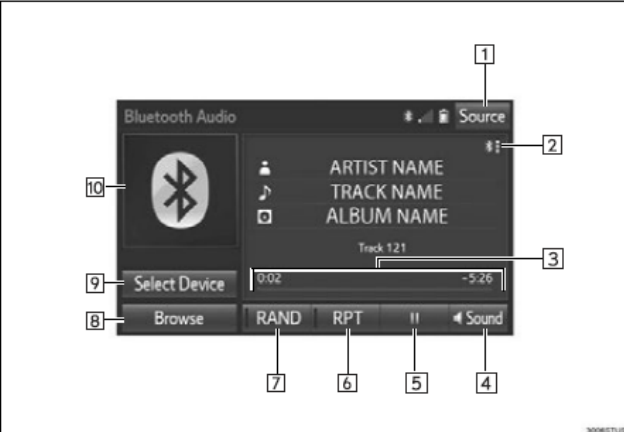
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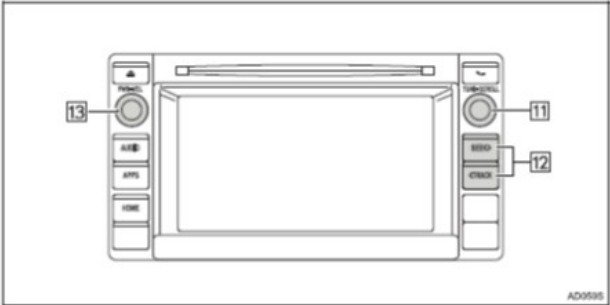
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <p>ROHM D00D0AWHFP (2A Line Voltage Regulator)</p> <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family)</p> <p>D35502F1 (A) EC-2140 1306EU703</p> <p>Audio Tone Circuit</p> <p>Speaker Output Connections</p> <p>Audio Power Amplifier</p> <p>Ribbon Cable Coupling Upper Circuit Board</p> <p>Ribbon Cable Coupling Display Module</p> <p>AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters)</p> <p>Pioneer PM9012A 313 T48</p> <p>AM/FM Radio Tuner</p> <p>2740 D09 JRC (Dual Channel Op Amp)</p> <p>Pioneer PEG804A</p> <p>416SP 3E3 60L1</p> <p>TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line)</p> <p>Antenna Impedance Matching Coil</p> <p>AM, FM, & Powered Antennas</p> <p>1</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

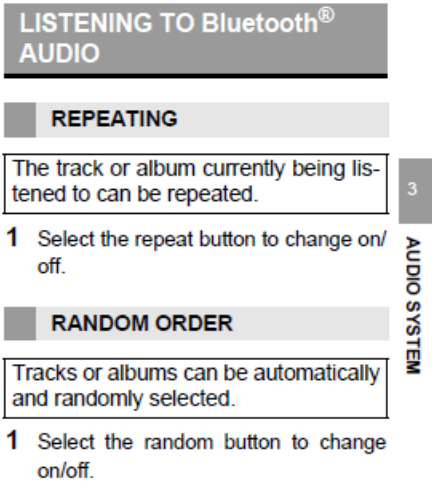
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	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

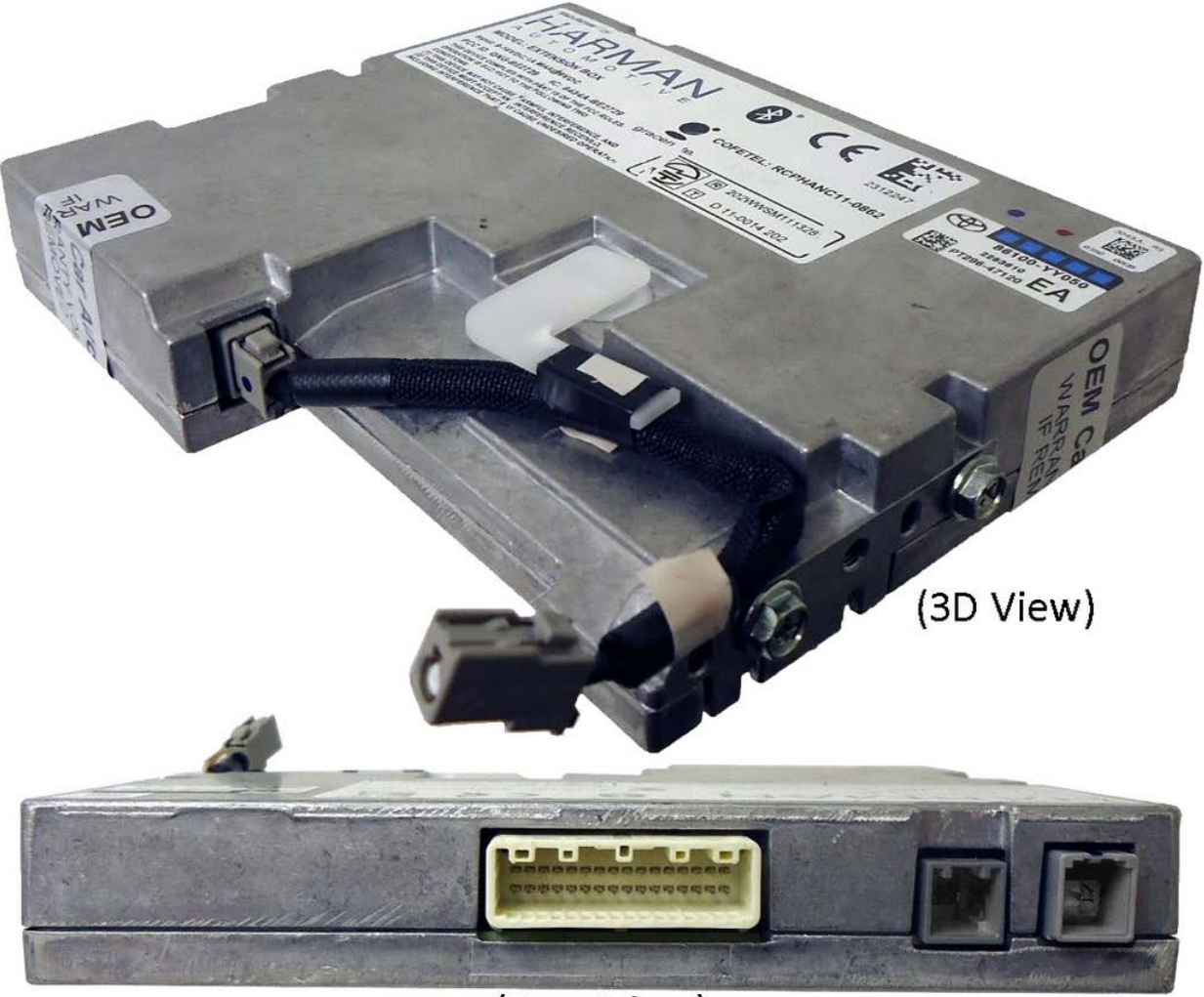
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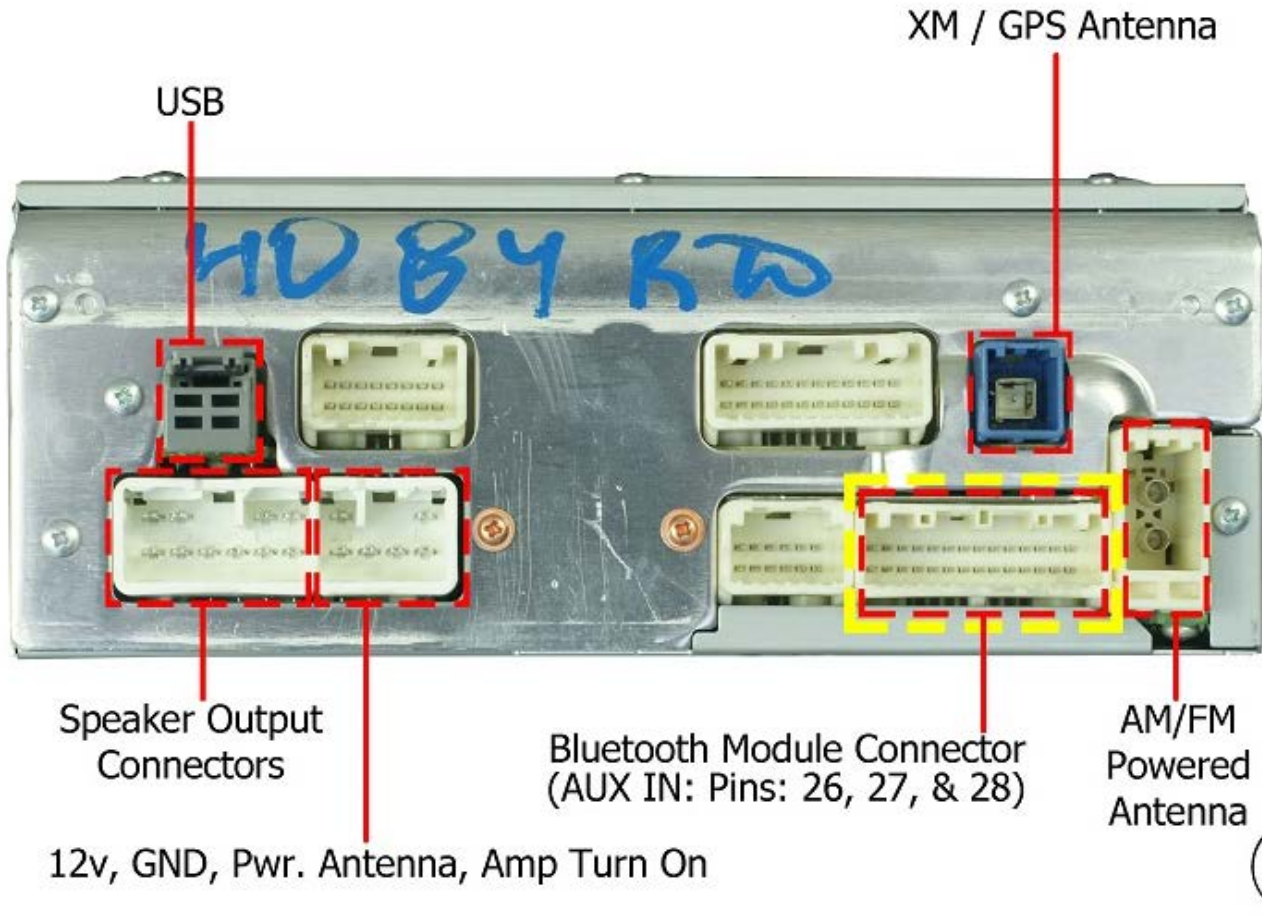
Claim	Support
	<p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> <div style="border: 1px solid black; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication.</p> <p>This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <p>OVERVIEW</p> <div style="border: 1px solid black; padding: 5px;"> <p>Select “ Audio” on the “Select Audio Source” screen. (→P.73)</p> <p>Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <p>■ CONTROL SCREEN</p> <div style="border: 1px solid black; padding: 10px;">  <p>The screenshot shows a 'Bluetooth Audio' control screen. At the top right, there is a 'Source' indicator (1). Below it, the screen displays 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME' (2). A progress bar shows 'Track 121' with a time of '0:02' and a total duration of '-3:20' (3). At the bottom, there are several control buttons: 'Select Device' (9), 'Browse' (8), 'RAND' (7), 'RPT' (6), a play/pause button (5), and a speaker icon for 'Sound' (4). A Bluetooth icon is located on the left side of the screen (10).</p> </div>

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	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr style="border: 2px solid red;"> <td>10</td> <td> <ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>105</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. 	11	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	12	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
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<p>51. The system of claim 50, wherein said first wireless interface is positioned within the car audio/video system.</p>	<p>The first wireless interface (i.e., the Bluetooth interface) is part of the car audio/video system.</p>

Claim	Support
	<p style="text-align: center;">2012-2014 Toyota (OEM) Bluetooth/Gracenote Module</p>  <p style="text-align: right;">(3D View)</p> <p style="text-align: center;">(Rear View)</p>

Claim	Support
	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>XM / GPS Antenna</p> <p>USB</p> <p><i>HD BY RTD</i></p> <p>Speaker Output Connectors</p> <p>Bluetooth Module Connector (AUX IN: Pins: 26, 27, & 28)</p> <p>AM/FM Powered Antenna</p> <p>12v, GND, Pwr. Antenna, Amp Turn On</p> <p>5</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <ul style="list-style-type: none"> ROHM D0D0AWHFP (2A Line Voltage Regulator) Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family) D35502F1 (A) EC-2140 1306EU703 Audio Tone Circuit Speaker Output Connections Audio Power Amplifier <p>Support</p> <ul style="list-style-type: none"> Ribbon Cable Coupling Upper Circuit Board Ribbon Cable Coupling Display Module AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters) Pioneer PM9012A 313 T48 AM/FM Radio Tuner 2740 D09 JRC (Dual Channel Op Amp) Pioneer PEG804A 416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line) Antenna Impedance Matching Coil AM, FM, & Powered Antennas Bluetooth Module Connector <p>1</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Entune™</p> <p>Entune now encompasses the complete audio display stack of your vehicle - including Bluetooth, voice recognition, USB, aux port, and your display screen. On select, premium audio head units, you have access to navigation and a rich set of Apps and Data Services, now referred to as the “Entune® App Suite”.</p> <p><i>See, e.g., Ex. A (www.toyota.com/entune) at 1.</i></p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

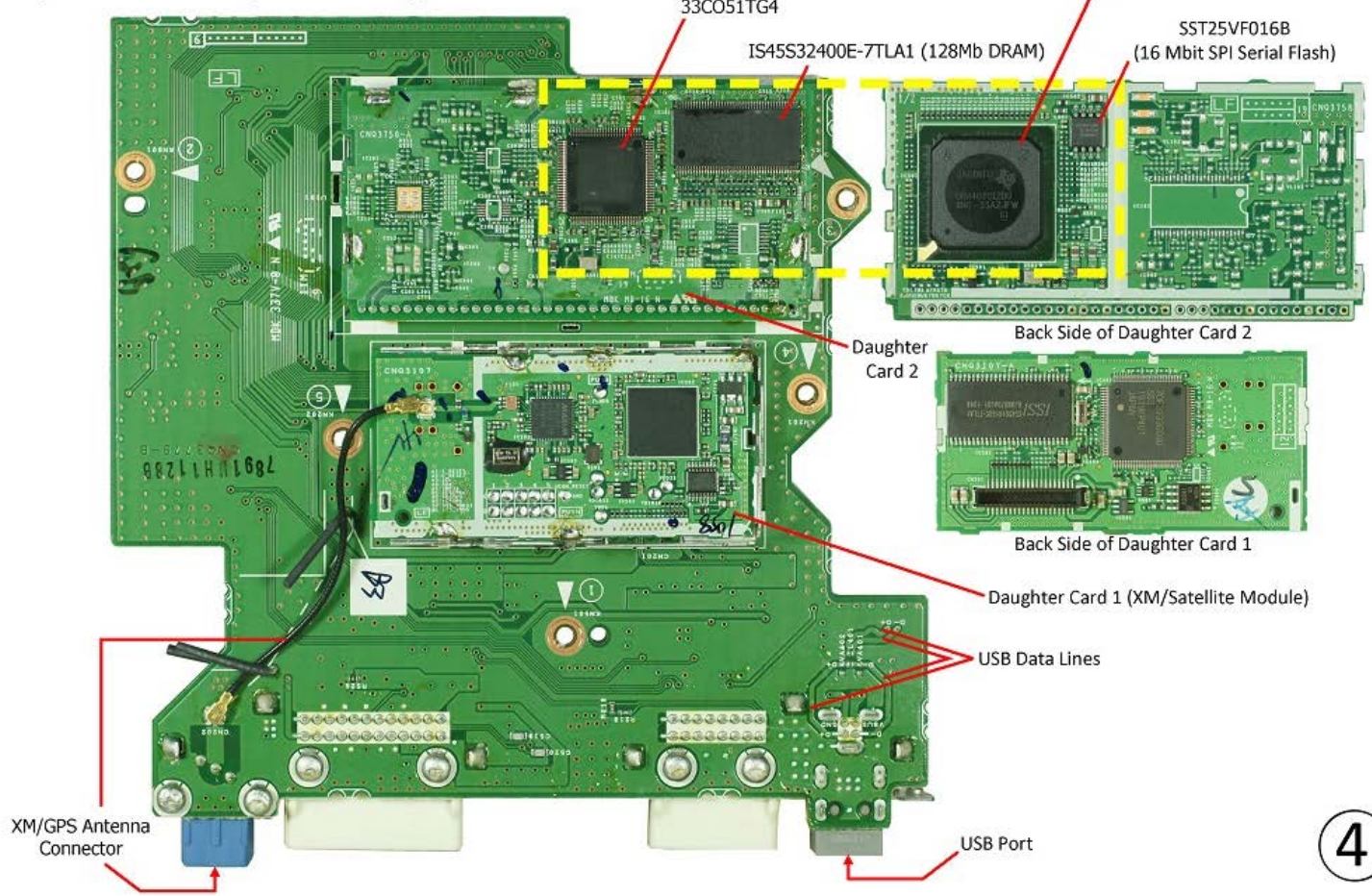
Claim	Support				
	<div style="text-align: center;"> <h2>Learn About Entune™ Multimedia Units</h2> <p><small>*Available on select MY14 vehicles</small></p> </div> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> <td style="width: 25%; vertical-align: top; padding: 10px;"> <h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p> </td> </tr> </table> <p style="margin-top: 20px;">See, e.g., Ex. A (www.toyota.com/entune) at 2.</p>	<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>
<h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p style="text-align: center; font-size: small;"><i>Entune® App Suite not available (no registration required)</i></p>	<h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>	<h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p style="text-align: center; font-size: small;"><i>Includes Entune® App Suite (requires registration)</i></p>		
<p>52. The system of claim 51, wherein said second wireless interface is positioned within the</p>	<p>Portable devices, such as iPhones, iPads, iPods, Android phones and other smart, portable devices, include Bluetooth interfaces.</p>				

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support																																																																								
portable device.	<p>iOS: Supported Bluetooth profiles</p> <p>iPhone, iPad, and iPod touch support multiple Bluetooth profiles with the latest version of iOS. You can learn the differences in Bluetooth-profile support from one device to the next.</p> <p>The following table lists supported Bluetooth profiles by device for the latest version of iOS.</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Hands-Free Profile (HFP 1.6)</th> <th>Phone Book Access Profile (PBAP)</th> <th>Advanced Audio Distribution Profile (A2DP)</th> <th>Audio/Video Remote Control Profile (AVRCP 1.4)</th> <th>Personal Area Network Profile (PAN)</th> <th>Human Interface Device Profile (HID)</th> <th>Message Access Profile (MAP)</th> </tr> </thead> <tbody> <tr> <td>iPhone 4 and later</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>iPhone 3GS</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPhone 3G</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> </tr> <tr> <td>Original iPhone</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>iPad 2 and later</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPad (1st generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (4th generation and later)</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (2nd and 3rd generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> </tbody> </table> <p>See, e.g., Ex. D (Apple iPhone webpage).</p>	Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)	iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓	iPhone 3GS	✓	✓	✓	✓	✓	✓	-	iPhone 3G	✓	✓	✓	✓	✓	-	-	Original iPhone	✓	✓	-	-	-	-	-	iPad 2 and later	✓	-	✓	✓	✓	✓	-	iPad (1st generation)	-	-	✓	✓	✓	✓	-	iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-	iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-
Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)																																																																		
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Original iPhone	✓	✓	-	-	-	-	-																																																																		
iPad 2 and later	✓	-	✓	✓	✓	✓	-																																																																		
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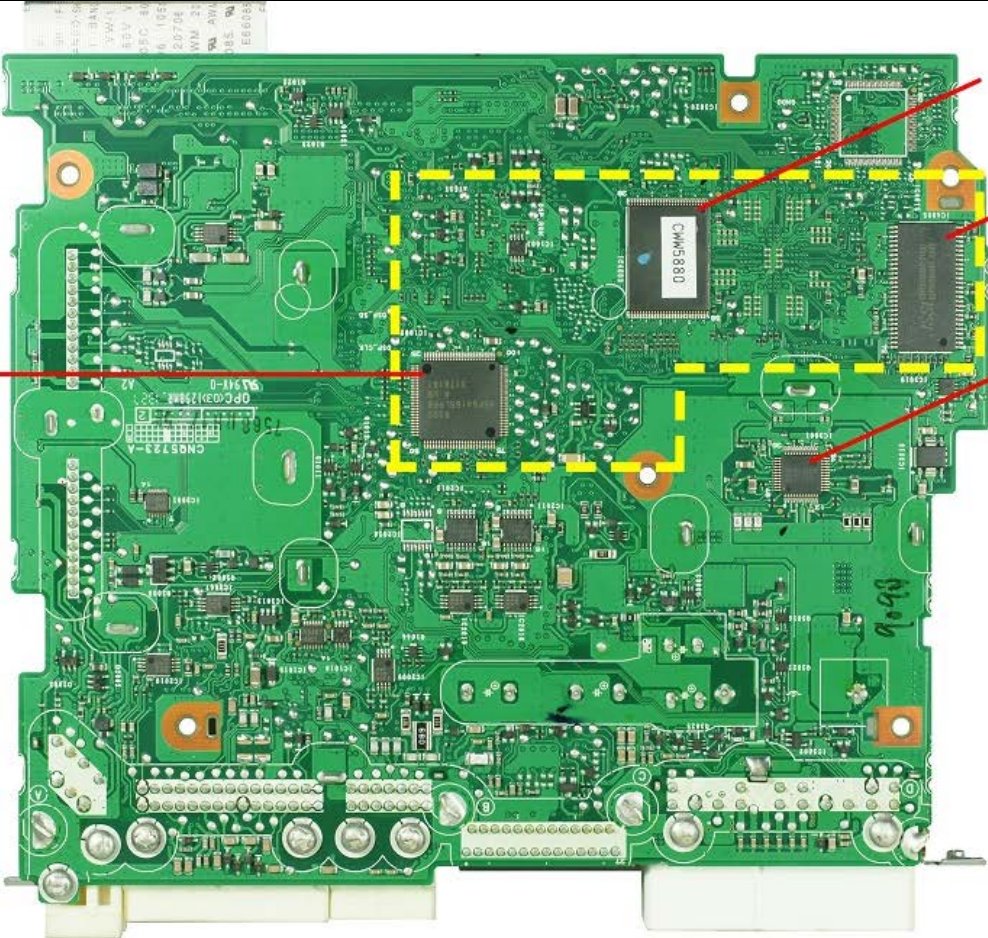
Claim	Support
	<p>See, e.g., http://developer.android.com/guide/topics/connectivity/bluetooth.html (discussing Bluetooth support for the Android platform).</p>
<p>53. The system of claim 49, wherein said integration subsystem receives a control command issued at the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution</p>	<p>The integration subsystem of each accused Toyota automobile “receives a control command issued at the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution thereby.” More specifically, once a portable device is connected, commands are received by the integration subsystem from the car audio/video system, where they are processed and converted from a format understandable and compatible with the car audio/video system and associated Toyota protocols (i.e., a format incompatible with the portable device) into formatted commands that are compatible with the portable device (i.e., converted into Bluetooth, application and/or device-specific protocols understandable to the portable device). These formatted commands are then dispatched to the portable device via the first and second wireless interfaces (i.e., the Bluetooth interface of the car audio/video system and one or more Bluetooth interfaces in communication with and part of the portable device), where they are executed by the portable device. At least the Renesas microcontroller of the integration subsystem (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the integration subsystem (such as within the Renesas microcontroller itself).</p> <p>For example, Entune system software updates may be downloaded from the Internet. See video at https://www.youtube.com/watch?v=KKcFqPYpI9M.</p>

Claim	Support
thereby.	<p>Toyota 'Entune' - (2014 Camry)</p>  <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 2</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>XM/GPS Antenna Connector</p> <p>USB Port</p> <p>4</p>


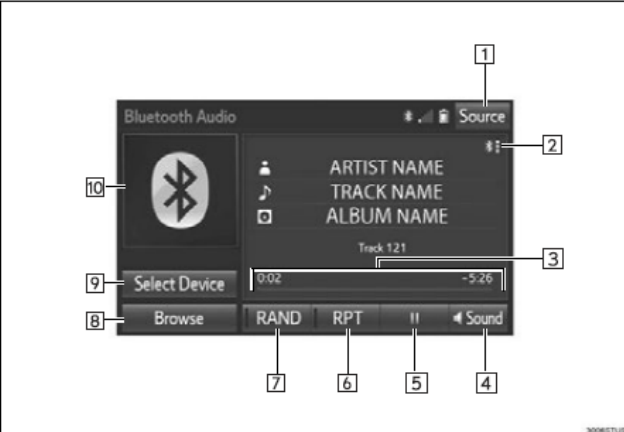
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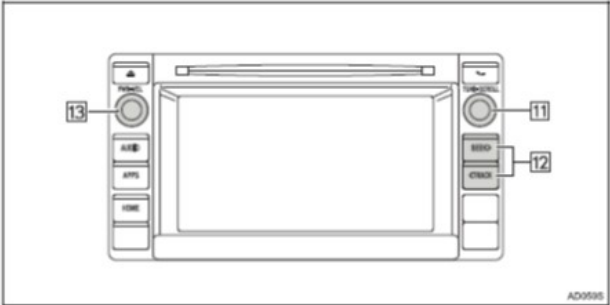
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <p>ROHM D00D0AWHFP (2A Line Voltage Regulator)</p> <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family)</p> <p>D35502F1 (A) EC-2140 1306EU703</p> <p>Audio Tone Circuit</p> <p>Speaker Output Connections</p> <p>Audio Power Amplifier</p> <p>Ribbon Cable Coupling Upper Circuit Board</p> <p>Ribbon Cable Coupling Display Module</p> <p>AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters)</p> <p>Pioneer PM9012A 313 T48</p> <p>AM/FM Radio Tuner</p> <p>2740 D09 JRC (Dual Channel Op Amp)</p> <p>Pioneer PEG804A</p> <p>416SP 3E3 60L1</p> <p>TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line)</p> <p>Antenna Impedance Matching Coil</p> <p>AM, FM, & Powered Antennas</p> <p>1</p>

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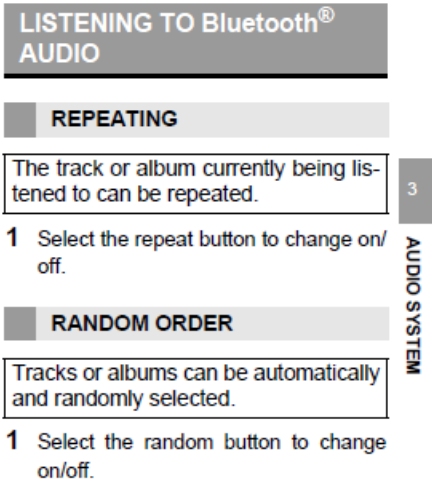
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

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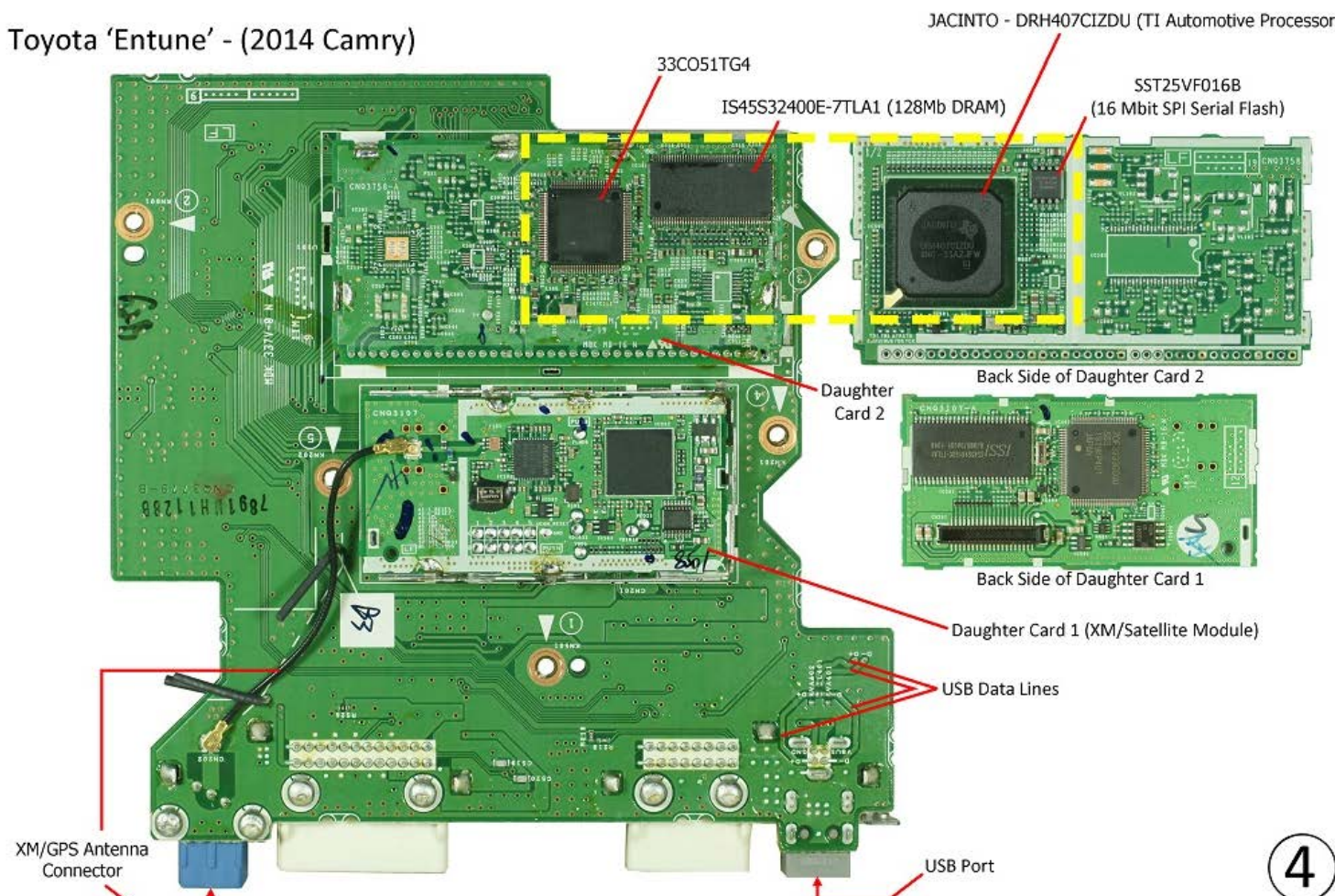
Claim	Support
	<p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> <div style="border: 1px solid black; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication.</p> <p>This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <p>OVERVIEW</p> <div style="border: 1px solid black; padding: 5px;"> <p>Select “ Audio” on the “Select Audio Source” screen. (→P.73)</p> <p>Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <p>■ CONTROL SCREEN</p> <div style="border: 1px solid black; padding: 10px;">  <p>The screenshot shows a 'Bluetooth Audio' control interface. At the top right, there is a 'Source' indicator (1). Below it, a Bluetooth icon is shown (10). To the right of the icon, there are fields for 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME' (2). Below these fields, a progress bar shows 'Track 121' with a time of '0:02' and a total duration of '-3:20' (3). At the bottom left, there are two buttons: 'Select Device' (9) and 'Browse' (8). At the bottom center, there are three control buttons: 'RAND' (7), 'RPT' (6), and a play/pause button (5). At the bottom right, there is a speaker icon labeled 'Sound' (4).</p> </div>

Claim	Support																												
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr style="border: 2px solid red;"> <td>10</td> <td> <ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>105</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. 	11	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	12	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
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Claim	Support
	 <p>The track or album currently being listened to can be repeated.</p> <p>1 Select the repeat button to change on/off.</p> <p>Tracks or albums can be automatically and randomly selected.</p> <p>1 Select the random button to change on/off.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 104-106.</i></p> <p><i>See, e.g., Ex. B (2015 Tacoma Manual) at 304.</i></p>
<p>54. The system of claim 49, wherein said integration subsystem receives data generated by the portable device in a format incompatible with the car audio/video</p>	<p>The integration subsystem of each accused Toyota automobile “receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.” More specifically, the portable device transmits data (such as audio, songs, album, track, and artist information) to the integration subsystem via the first and second wireless interfaces (i.e., the Bluetooth interface of the car audio/video system and one or more Bluetooth interfaces in communication with and part of the portable device). The integration subsystem then processes and converts the data from a format incompatible with the car audio/video system and understandable and compatible with the portable device (i.e., Bluetooth, application and/or device-specific protocols understandable to the portable device) into formatted data compatible with the car audio/video system (i.e., formatted data understandable and compatible with the car audio/video system and associated Toyota protocols). The formatted data is then transmitted by the integration subsystem to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system. At least the Renesas microcontroller of the integration</p>

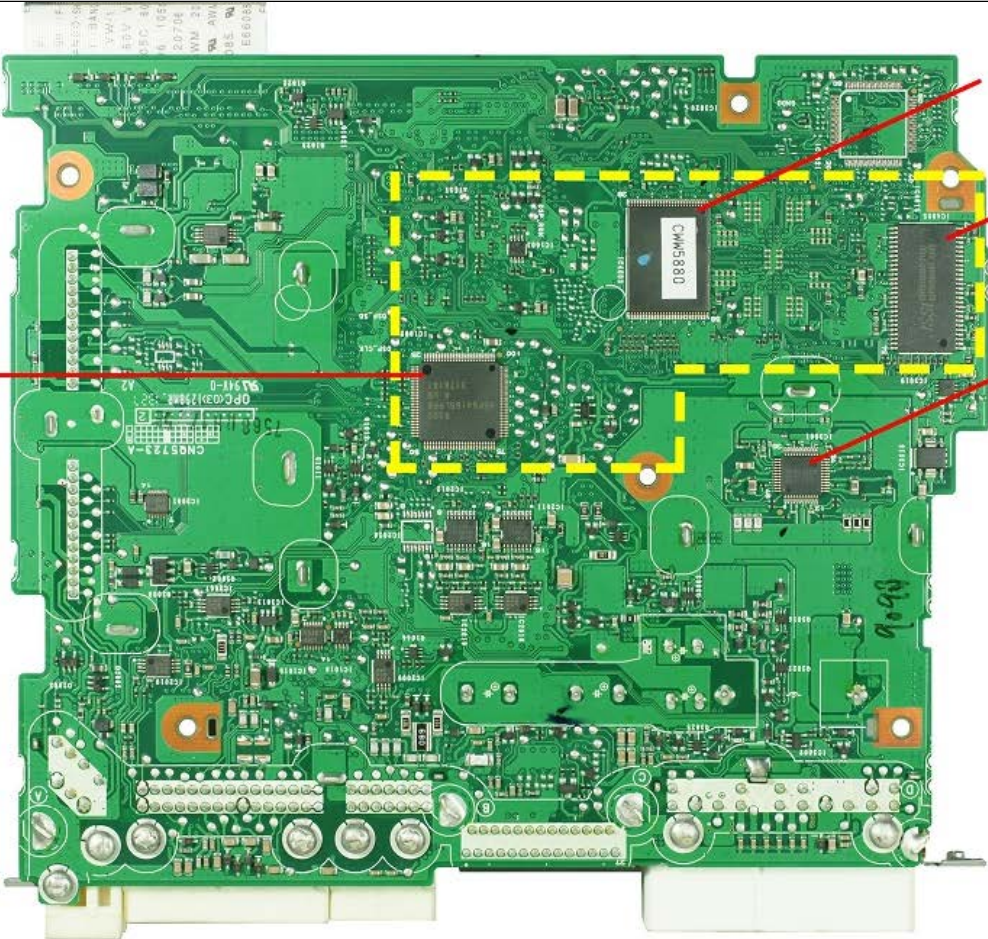
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>system, processes the data into formatted data compatible with the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.</p>	<p>subsystem (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is believed that this code is stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or is contained within firmware elsewhere in the integration subsystem (such as within the Renesas microcontroller itself).</p> <p>Toyota 'Entune' - (2014 Camry)</p>  <p>JACINTO - DRH407CIZDU (TI Automotive Processor)</p> <p>33C051TG4</p> <p>IS45S32400E-7TLA1 (128Mb DRAM)</p> <p>SST25VF016B (16 Mbit SPI Serial Flash)</p> <p>Back Side of Daughter Card 2</p> <p>Daughter Card 2</p> <p>Back Side of Daughter Card 1</p> <p>Daughter Card 1 (XM/Satellite Module)</p> <p>USB Data Lines</p> <p>USB Port</p> <p>XM/GPS Antenna Connector</p> <p style="text-align: right;">④</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

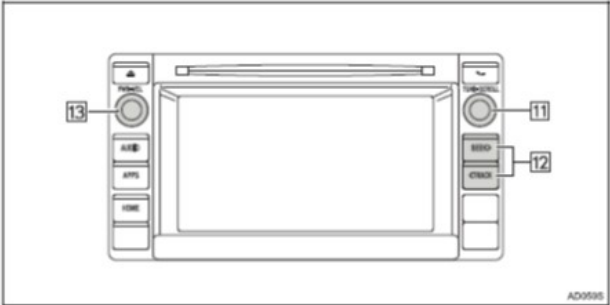
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p> <p>Ribbon Cable Coupling Upper Circuit Board</p> <p>Ribbon Cable Coupling Display Module</p> <p>ROHM D00D0AWHFP (2A Line Voltage Regulator)</p> <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Flash Memory, ROMless M16C Family)</p> <p>D35502F1 (A) EC-2140 1306EU703</p> <p>AK7734XQ (Audio DSP w/ A to D & Sample Rate Converters)</p> <p>Pioneer PM9012A 313 T48</p> <p>AM/FM Radio Tuner</p> <p>2740 D09 JRC (Dual Channel Op Amp)</p> <p>Pioneer PEG804A</p> <p>416SP 3E3 60L1 TDK ZJY2401 (Z0Y2401) (Common Mode Filter for Signal Line)</p> <p>Antenna Impedance Matching Coil</p> <p>Audio Tone Circuit</p> <p>Speaker Output Connections</p> <p>Audio Power Amplifier</p> <p>AM, FM, & Powered Antennas</p> <p>1</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

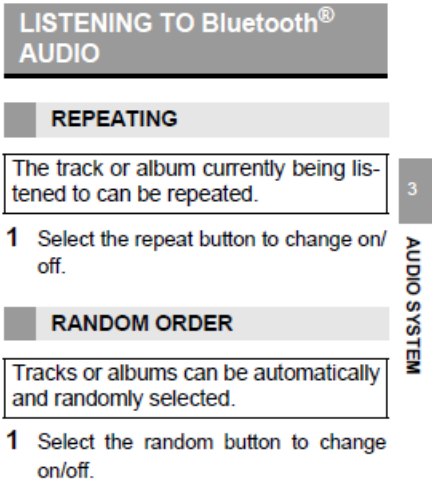
Claim	Support
	<p>Toyota 'Entune' (2014 Camry)</p>  <p>Renesas R32C R5F64168LPFD A UB 317B1A1 (Micro Control Unit w/ Embedded Memory M16C Family)</p> <p>SPANSION S29GL256N90TFIR2 318BB723 (256 Bit MirrorBit Flash Memory)</p> <p>ISSI IS45S16160C-7TLA1 AJP2190A0X1 1248 (250 Mb DRAM)</p> <p>BD9018KV 327 T33 (2-Channel Synchronous Controller Switching Regulator)</p> <p>2</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div> <p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> </div> <div> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <div> <p>OVERVIEW</p> </div> <div> <p>Select “Audio” on the “Select Audio Source” screen. (→P.73) Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <div> <p>CONTROL SCREEN</p> </div> <div> <p>The screenshot shows the 'Bluetooth Audio' control interface. At the top right, there is a 'Source' indicator (1). Below it, a Bluetooth symbol is shown (10). The main display area shows 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME' (2). Below the track name, it says 'Track 121' (3). A progress bar shows '0:02' and '-5:26'. At the bottom, there are several control buttons: 'Select Device' (9), 'Browse' (8), 'RAND' (7), 'RPT' (6), a play/pause button (5), and a 'Sound' icon (4).</p> </div>

Claim	Support																												
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr style="border: 2px solid red;"> <td>10</td> <td> <ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>105</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. 	11	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	12	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
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Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p>The track or album currently being listened to can be repeated.</p> <p>1 Select the repeat button to change on/off.</p> <p>Tracks or albums can be automatically and randomly selected.</p> <p>1 Select the random button to change on/off.</p> <p><i>See, e.g.,</i> Ex. C (2015 Tacoma Navigation Manual) at 104-106.</p> <p><i>See also</i> Ex. B (2015 Tacoma Manual) at 304.</p>
<p>55. The system of claim 49, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control</p>	<p>The accused Toyota automobiles permit various control and audio commands to be submitted via voice recognition, which is processed by a voice recognition subsystem of the car audio/video system. Voice recognition of spoken control commands issued by a user may be used by the car audio/video system to instruct the portable device to play audio files.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>commands issued by a user.</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p>VOICE COMMAND EXAMPLE: SEARCH FOR A SONG</p> <ol style="list-style-type: none"> 1 Press the talk switch. 2 Say "<i>Play song <name></i>". <ul style="list-style-type: none"> ● A confirmation screen will be displayed showing the recognition results. If multiple matching items are found, a selection screen will be displayed. Say "<i><number></i>" or select the number. ● The system starts playing music and the song lists are displayed. <p>INFORMATION</p> <ul style="list-style-type: none"> ● The Gracenote database is only compatible with the USB or iPod mode. ● A USB memory or iPod must be connected to enable track searching and playback. (→P.96, 100) ● When a USB memory or iPod is connected, recognition data is created so tracks can be searched using voice commands. ● Recognition data is updated under the following conditions: <ul style="list-style-type: none"> • When the USB memory or iPod data has changed. • When the voice recognition language is changed. (→P.57) ● While the recognition data is being created or being updated, a track search cannot be performed using a voice command. </div> <div style="width: 15%; text-align: center; font-weight: bold;"> <p>4</p> <p>VOICE COMMAND SYSTEM</p> </div> </div>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support																										
	<div style="border: 1px solid black; padding: 10px;"> <div style="background-color: #cccccc; padding: 5px; margin-bottom: 10px;">EXPRESSION EXAMPLES FOR EACH FUNCTION</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 25%;">Command</th> <th style="width: 75%;">Expression examples</th> </tr> </thead> <tbody> <tr> <td>"Go Home"*</td> <td><i>Navigate to my house. Take me home.</i></td> </tr> <tr> <td>"Enter an Address"*</td> <td><i>I need directions to an address. Give me a street.</i></td> </tr> <tr> <td>"Find Nearby <POI category>"*</td> <td><i>Search for a <Restaurants> around here. Find a <Restaurants> nearby.</i></td> </tr> <tr> <td>"Call <name> <type>"</td> <td><i>Get me <Robert Brown>. Call <contacts> <phone types>.</i></td> </tr> <tr> <td>"Dial <number>"</td> <td><i>Call <911>.</i></td> </tr> <tr> <td>"Play Artist <name>"</td> <td><i>Play the artist <name>. I want to hear the band <name>.</i></td> </tr> <tr> <td>"Play Album <name>"</td> <td><i>Play album <name>.</i></td> </tr> </tbody> </table> <div style="text-align: center; margin: 10px 0;"> <div style="background-color: #cccccc; padding: 2px 5px; display: inline-block;">4</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin: 0 5px;">VOICE COMMAND SYSTEM</div> </div> <p>*: Entune Premium Audio only</p> <p style="margin-top: 20px;">▶ Audio</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 40%;">Command</th> <th style="width: 60%;">Action</th> </tr> </thead> <tbody> <tr> <td>"Play Playlist <name>"</td> <td>Plays tracks from the selected playlist</td> </tr> <tr> <td>"Play Artist <name>"</td> <td>Plays tracks from the selected artist</td> </tr> <tr> <td>"Play Song <name>"</td> <td>Plays the selected track</td> </tr> <tr> <td>"Play Album <name>"</td> <td>Plays tracks from the selected album</td> </tr> </tbody> </table> </div>	Command	Expression examples	"Go Home"*	<i>Navigate to my house. Take me home.</i>	"Enter an Address"*	<i>I need directions to an address. Give me a street.</i>	"Find Nearby <POI category>"*	<i>Search for a <Restaurants> around here. Find a <Restaurants> nearby.</i>	"Call <name> <type>"	<i>Get me <Robert Brown>. Call <contacts> <phone types>.</i>	"Dial <number>"	<i>Call <911>.</i>	"Play Artist <name>"	<i>Play the artist <name>. I want to hear the band <name>.</i>	"Play Album <name>"	<i>Play album <name>.</i>	Command	Action	"Play Playlist <name>"	Plays tracks from the selected playlist	"Play Artist <name>"	Plays tracks from the selected artist	"Play Song <name>"	Plays the selected track	"Play Album <name>"	Plays tracks from the selected album
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Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p><i>See also</i> Ex. B (2015 Tacoma Manual) at 332-333.</p>
<p>56. The system of claim 49, wherein said integration subsystem generates a device presence signal and transmits the device presence signal to the car audio/video system to maintain the car audio/video system in a state responsive to the portable device.</p>	<p>Each of the accused Toyota automobiles includes a device presence signal that “maintain[s] the car audio/video system in a state responsive to the portable device.” Specifically, when a portable device is paired via Bluetooth, a Bluetooth graphic appears indicating that a compatible device is connected and recognized. Once a compatible portable device is connected and recognized, the integration subsystem maintains the car audio/video system in a state responsive to processed data and audio signals from the portable device.</p> <p>The device presence signal is generated when at least the Renesas microcontroller of the integration subsystem (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code stored in onboard flash and/or other memory modules (such as the Spansion flash memory module), and/or within firmware elsewhere in the interface (such as within the Renesas microcontroller itself) in response to its receipt from the first wireless interface of a signal indicating that a portable device has established a connection via Bluetooth.</p> <p>The device presence signal can be identified by examining the source code in the integration subsystem of the accused Toyota automobiles.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>Entune™</p> <p>Entune now encompasses the complete audio display stack of your vehicle - including Bluetooth, voice recognition, USB, aux port, and your display screen. On select, premium audio head units, you have access to navigation and a rich set of Apps and Data Services, now referred to as the “Entune® App Suite”.</p> <p><i>See, e.g., Ex. A (www.toyota.com/entune) at 1.</i></p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<div style="text-align: center;"> <h2>Learn About Entune™ Multimedia Units</h2> <p><small>*Available on select MY14 vehicles</small></p> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 22%;"> <h3>Entune™ Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition <p><small>Entune® App Suite not available (no registration required)</small></p> </div> <div style="width: 22%;"> <h3>Entune™ Audio Plus</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio (not available on 2014 4Runner) • HD Radio™ • HD Traffic™/Weather (does not include Navigation) <p><small>Entune® App Suite not available (no registration required)</small></p> </div> <div style="width: 22%;"> <h3>Entune™ Premium Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite <p><small>Includes Entune® App Suite (requires registration)</small></p> </div> <div style="width: 22%;"> <h3>Entune™ Premium JBL® Audio</h3> <ul style="list-style-type: none"> • 6.1" - 8" Touchscreen • AM/FM/CD • iPod®/USB2.0/AUX • Bluetooth®/Streaming • Phonebook • Advanced Voice Recognition • SXM Radio • HD Radio™ • HD Traffic™/Weather • AM/FM Radio Cache • Navigation • Entune® App Suite • JBL® Speakers/Amp <p><small>Includes Entune® App Suite (requires registration)</small></p> </div> </div> <p>See, e.g., Ex. A (www.toyota.com/entune) at 2.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles


Claim	Support
	<div style="background-color: #cccccc; padding: 2px;">3. MEDIA OPERATION</div> <div style="background-color: #cccccc; padding: 2px;">4. Bluetooth® AUDIO</div> <div style="border: 1px solid black; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication.</p> <p>This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <div style="background-color: #cccccc; padding: 2px;">OVERVIEW</div> <div style="border: 1px solid black; padding: 5px;"> <p>Select "Audio" on the "Select Audio Source" screen. (→P.73)</p> <p>Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <div style="background-color: #cccccc; padding: 2px;">■ CONTROL SCREEN</div> <div style="border: 1px solid black; padding: 10px;"> <p>The screenshot shows a 'Bluetooth Audio' control screen. At the top right, there is a 'Source' indicator with a Bluetooth symbol (callout 1). Below it, the text 'BT' is highlighted with a red box (callout 2). The screen displays 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME' fields. Below these is a track indicator 'Track 121' and a progress bar showing '0:02' and '-5:28'. At the bottom, there are several control buttons: 'Select Device' (callout 8), 'Browse' (callout 9), 'RAND' (callout 7), 'RPT' (callout 6), 'II' (callout 5), and 'Sound' (callout 4).</p> </div>

Claim	Support																												
	<div> <p>3. MEDIA OPERATION</p> </div> <div> <p>CONTROL PANEL</p> </div> <div> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>AUDIO SYSTEM</p> </div> <div> <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr> <td>10</td> <td> <ul style="list-style-type: none"> Displays cover art. Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system. </td> </tr> </tbody> </table> </div> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 104-05.</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> Displays cover art. Select to display a track list. 	11	<ul style="list-style-type: none"> Turn to select a track. Turn to move up/down the list. 	12	<ul style="list-style-type: none"> Press to select a track. Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> Turn to adjust volume. Press to turn the audio system on/off. Press and hold to restart the system.
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Claim	Support
<p>57. The system of claim 49, wherein said integration subsystem instructs said portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	<p>See claim 55 support.</p>
<p>62. The system of claim 49, wherein the portable device comprises a portable digital media player.</p>	<p>Portable devices capable of being connected to car audio/video systems of the accused Toyota automobiles include Bluetooth compatible smart phones and other smart devices, such as iPhones, iPads, iPods, and Android devices. When storing, streaming and playing media (such as audio and/or video), these smart devices constitute digital media players. These players are capable of at least playing MP3 song files and streaming audio, such as via applications and online websites (e.g., Pandora, iTunes streaming, and Apple Music).</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>iPod</p>  <p><ul style="list-style-type: none">● "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards.● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.● iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 116.</i></p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	<p>COMPATIBLE MODELS</p> <p>The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.</p> <p>Made for</p> <ul style="list-style-type: none"> • iPod touch (5th generation) • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod touch (1st generation) • iPod classic • iPod with video • iPod nano (7th generation) • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPod nano (3rd generation) • iPod nano (2nd generation) • iPod nano (1st generation) • iPhone 5 • iPhone 4S • iPhone 4 • iPhone 3GS • iPhone 3G • iPhone <p>Depending on differences between models or software versions etc., some models might be incompatible with this system.</p> <p><i>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 117.</i></p>

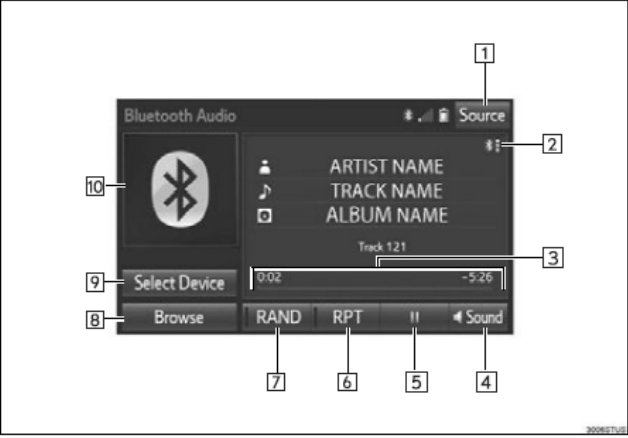
Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

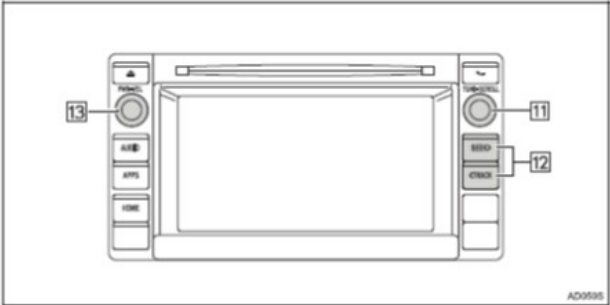
Claim	Support
	<div> <p>■ About iPod</p> </div> <div> </div> <div> <ul style="list-style-type: none"> ● "Made for iPod", "Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. ● Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance. ● iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. </div> <div> <p>■ iPod cover art</p> </div> <div> <ul style="list-style-type: none"> ● Depending on the iPod and songs in the iPod, iPod cover art may be displayed. ● This function can be changed to on/off. (→P. 253) ● It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. ● Only iPod cover art that is saved in JPEG format can be displayed. </div> <div> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">3 Interior and exterior features</p> </div> <div> <p>See, e.g., Ex. B (2015 Tacoma Manual) at 271.</p> </div> <div> <h2>Music Streaming via Bluetooth®</h2> </div> <div> <p>Does your smartphone have an MP3/WMA player? With Bluetooth® 8 streaming audio, listening to your music through the vehicle's speakers wirelessly is easy.</p> </div> <div> <p>See http://www.sansonetoyota.com/new.cfm/page/toyota-entune/</p> </div>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

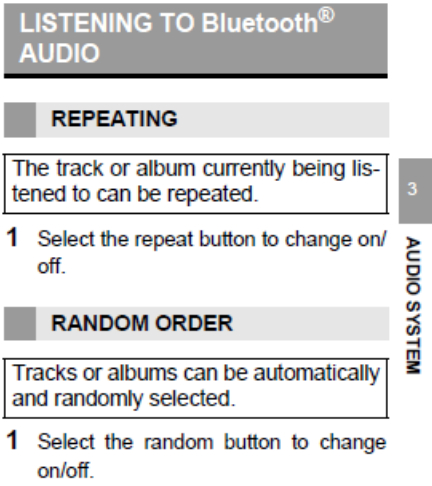
Claim	Support
<p>63. The system of claim 62, wherein the portable digital media player comprises a video device, a portable media center, a portable media player, an MP3 player, an MP4 player, a WMV player, an Apple iPod, or an Apple video iPod.</p>	<p>See claim 62 support.</p>
<p>64. The system of claim 49, wherein the portable device comprises a cellular telephone.</p>	<p>See claim 62 support.</p>
<p>66. The system of claim 49, wherein said integration subsystem obtains, using said wireless</p>	<p>The integration subsystem of the accused Toyota automobiles obtains, via the wireless communication link between the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and one or more others in communication with and part of the portable device), information about a video file (i.e., cover art associated with audio files) stored on the portable device. Specifically, when a user selects an audio file to play (and in so doing also selects the associated cover art file) using controls of the car audio/video system, the integration subsystem receives cover art information from the portable device. The integration subsystem then transmits the cover art file to the car audio/video system for display on the display of the car audio/video system.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>communication link, information about a video file stored on the portable device for subsequent display of the information on a display of the car audio/video system, instructs the portable device to play the video file in response to a user selecting the video file using controls of the car audio/video system, and receives video generated by the portable device over said wireless communication link for playing on the car audio/video system.</p>	<div> <p>3. MEDIA OPERATION</p> <p>4. Bluetooth® AUDIO</p> </div> <div> <p>The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your device does not support Bluetooth®, the Bluetooth® audio system will not function.</p> </div> <div> <p>OVERVIEW</p> </div> <div> <p>Select "Audio" on the "Select Audio Source" screen. (→P.73) Depending on the type of portable player connected, some functions may not be available and/or the screen may look differently than shown in this manual.</p> </div> <div> <p>CONTROL SCREEN</p>  <p>The screenshot shows a 'Bluetooth Audio' control screen. At the top right, there is a 'Source' indicator (1). Below it, a Bluetooth icon is shown (10). The screen displays 'ARTIST NAME', 'TRACK NAME', and 'ALBUM NAME'. A progress bar shows 'Track 121' with a time of '0:02' and '-5:26'. At the bottom, there are control buttons: 'Select Device' (9), 'Browse' (8), 'RAND' (7), 'RPT' (6), a play/pause button (5), and a 'Sound' icon (4).</p> </div>

Claim	Support																												
	<p>CONTROL PANEL</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to display the "Select Audio Source" screen.</td> </tr> <tr> <td>2</td> <td>Displays Bluetooth® device condition.</td> </tr> <tr> <td>3</td> <td>Shows progress</td> </tr> <tr> <td>4</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>5</td> <td>Select to play/pause.</td> </tr> <tr> <td>6</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>7</td> <td>Select to set random playback.</td> </tr> <tr> <td>8</td> <td>Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>9</td> <td>Select to display the portable device connection screen.</td> </tr> <tr style="border: 2px solid red;"> <td>10</td> <td> <ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. </td> </tr> <tr> <td>11</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>12</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>13</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system. </td> </tr> </tbody> </table> <p>105</p>	No.	Function	1	Select to display the "Select Audio Source" screen.	2	Displays Bluetooth® device condition.	3	Shows progress	4	Select to display the sound settings screen.	5	Select to play/pause.	6	Select to set repeat playback.	7	Select to set random playback.	8	Select to display the play mode selection screen. To return to the top screen, select "Now Playing" on the list screen.	9	Select to display the portable device connection screen.	10	<ul style="list-style-type: none"> • Displays cover art. • Select to display a track list. 	11	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	12	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	13	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the system.
No.	Function																												
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Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
	 <p>The screenshot shows a car infotainment system interface. At the top, it says "LISTENING TO Bluetooth® AUDIO". Below that, there are two main options: "REPEATING" and "RANDOM ORDER". Under "REPEATING", there is a text box that says "The track or album currently being listened to can be repeated." and a numbered instruction "1 Select the repeat button to change on/off." Under "RANDOM ORDER", there is a text box that says "Tracks or albums can be automatically and randomly selected." and a numbered instruction "1 Select the random button to change on/off." To the right of these options is a vertical label "AUDIO SYSTEM" and a small number "3" next to the "REPEATING" section.</p> <p>See, e.g., Ex. C (2015 Tacoma Navigation Manual) at 104-106.</p> <p>See, e.g., Ex. B (2015 Tacoma Manual) at 304.</p> <p>See, e.g., Toyota USB-Ipod video (showing cover art): https://www.youtube.com/watch?v=CwRYEJYiGWw.</p> <p>See, e.g., Toyota Entune Display Audio video (showing cover art): https://www.youtube.com/watch?v=MuCaxLDUsi8</p>
<p>68. The system of claim 66, wherein the video file comprises a picture stored on the portable device.</p>	<p>See claim 66 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
70. The system of claim 66, wherein said integration subsystem receives video generated by the portable device in a first format incompatible with the car audio/video system, processes the video into processed video in a second format compatible with the car audio/video system, and transmits the processed video to the car audio/video system for subsequent display of the processed video on a display of the car	See claim 54 support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
audio/video system.	
71. The system of claim 49, wherein the audio file comprises a song stored on the portable device.	<i>See claim 49 support.</i>
[73P]. A multimedia device integration system, comprising:	<i>See preamble [49P] support.</i>
[73A]. an integration subsystem in communication with a car audio/video system; and	<i>See element [49A] support.</i>
[73B] a first wireless interface in communication with said integration subsystem, said first wireless interface	<i>See element [49B] support.</i>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
establishing a wireless communication link with a second wireless interface in communication with a portable device external to the car audio/video system,	
[73C] wherein said integration subsystem obtains, using said wireless communication link, information about an audio file received by the portable device, transmits the information to the car audio/video system for subsequent display of the information on a display of the car audio/video system,	<p><i>See element [49C] support.</i></p> <p>The audio file may be “received” by the portable device from online streaming services, such as Pandora, Spotify, iTunes, or Apple Music. Audio files (such as MP3 files) stored on the portable device may also be “received” from other sources, such as download websites or the user himself/herself via download.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>[73D] instructs the portable device to play the audio file in response to a user selecting the audio file using controls of the car audio/video system, and receives audio generated by the portable device over said wireless communication link for playing on the car audio/video system.</p>	<p>See element [49D] support</p>
<p>74. The system of claim 73, wherein said integration subsystem is positioned within the car audio/video system.</p>	<p>See claim 50 support.</p>
<p>75. The system</p>	<p>See claim 51 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>of claim 74, wherein said first wireless interface is positioned within the car audio/video system.</p>	
<p>76. The system of claim 75, wherein said second wireless interface is positioned within the portable device.</p>	<p>See claim 52 support.</p>
<p>77. The system of claim 73, wherein said integration subsystem receives a control command issued at the car audio/video system in a format incompatible with the portable device,</p>	<p>See claim 53 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution thereby.</p>	
<p>78. The system of claim 73, wherein said integration subsystem receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with</p>	<p>See claim 54 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.</p>	
<p>79. The system of claim 73, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by a user.</p>	<p>See claim 55 support.</p>
<p>80. The system of claim 79,</p>	<p>See claim 55 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>wherein said integration subsystem instructs said portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	
<p>94. The system of claim 73, wherein said integration subsystem obtains, over said wireless communication link, information about a video file received by the portable device for subsequent display of the information on a display of the car audio/video system, instructs the portable</p>	<p>See claim 66 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
device to play the video file in response to a user selecting the video file using controls of the car audio/video system, and receives video generated by the portable device over said wireless communication link for playing on the car audio/video system.	
95. The system of claim 73, wherein the audio file comprises a song stored on the portable device.	See claim 71 support.
[97P]. A multimedia device integration system,	See preamble [49A] support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
comprising:	
[97A] first and second wireless interfaces establishing a wireless communication link between a car audio/video system and a portable device external to the car audio/video system; and	See element [49B] support.
[97B] an integration subsystem in communication with said wireless communication link,	See element [49A] support.
[97C] wherein said integration subsystem channels audio generated by the portable device to the car audio/video system using the wireless communication	See element [49C] and [49D] support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>link for subsequent playing of the audio on the car audio/video system, the audio corresponding to an audio file played by the portable device, and</p>	
<p>[97D] wherein said integration subsystem receives a control command issued by a user through one or more controls of the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command</p>	<p>See claim 53 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
compatible with the portable device, and dispatches the formatted command to the portable device for execution thereby.	
99. The system of claim 97, wherein said integration subsystem is positioned within the car audio/video system.	See claim 50 support.
100. The system of claim 97, where the audio file is stored on the portable device.	See element [49C] support.
101. The system of claim 97, wherein the audio file is received by the portable device.	See element [73C] support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>102. The system of claim 97, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by the user.</p>	<p>See claims 55 and 57 support.</p>
<p>103. The system of claim 102, wherein said integration subsystem instructs said portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	<p>See claims 55 and 57 support.</p>
<p>106. The system</p>	<p>See claim 56 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>of claim 97, wherein said integration subsystem generates a device presence signal and transmits the device presence signal to the car audio/video system to maintain the car audio/video system in a state responsive to the portable device.</p>	
<p>109. The system of claim 97, wherein the portable device comprises a portable digital media player.</p>	<p>See claim 62 support.</p>
<p>110. The system of claim 109, wherein the portable digital media player comprises a</p>	<p>See claim 63 support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
video device, a portable media center, a portable media player, an MP3 player, an MP4 player, a WMV player, an Apple iPod, or an Apple video iPod.	
111. The system of claim 97, wherein the portable device comprises a cellular telephone.	See claim 64 support.
113. The system of claim 97, wherein said integration subsystem channels video generated by the portable device to the car audio/video system over the wireless communication link for	See claim 66 support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
subsequent playing of the audio on the car audio/video system, the video corresponding to a video file played by the portable device.	
115. The system of claim 113, wherein the video file comprises a picture stored on the portable device.	See claim 68 support.
120. A multimedia device integration system, comprising:	See preamble [97P] support.
first and second wireless interfaces establishing a wireless communication link between a	See element [97A] support.

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>car audio/video system and a portable device external to the car audio/video system; and</p>	
<p>an integration subsystem in communication with said wireless communication link,</p>	<p>See element [97B] support</p>
<p>wherein said integration subsystem instructs the portable device to play an audio file in response to a user selecting the audio file using controls of the car audio/video system, wherein said integration subsystem channels audio generated by the portable device to the car audio/video</p>	<p>See element [97C] support.</p>

Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

Claim	Support
<p>system using the wireless communication link for subsequent playing of the audio on the car audio/video system, the audio corresponding to the audio file played by the portable device, and</p>	
<p>wherein said integration subsystem receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video system, and</p>	<p>See element [97D] support.</p>


Appendix C - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Toyota Automobiles

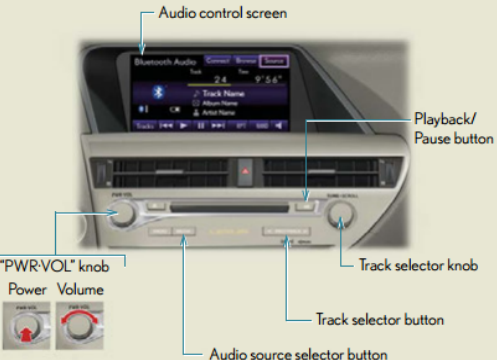
Claim	Support
transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.	

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

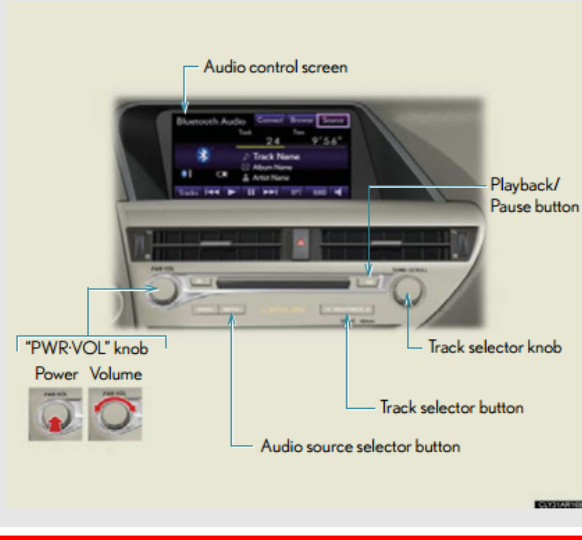
In these Infringement Contentions, Blitzsafe contends that at least the following claims of U.S. Patent No. 8,155,342 (“’342 patent”) identified below are infringed by the infotainment systems in accused Lexus automobiles. Blitzsafe does not concede that any claims of the ’342 patent that are not listed below are not infringed by the infotainment systems in accused Lexus automobiles. Moreover, the citations to certain documents and other information below are intended to be exemplary only and in no way foreclose Blitzsafe from citing or relying on additional documents, information, and/or testimony at a later time. These contentions are preliminary in nature, and an analysis of Lexus’s infotainment systems, internal documentation, source code, and/or testimony from relevant witnesses may be necessary to more fully and accurately describe the infringing features of its accused products. Accordingly, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions once such additional information is made available to Blitzsafe. Furthermore, Blitzsafe reserves the right to supplement, correct, modify, and/or amend these contentions as discovery in this case progresses; in view of the Court’s claim construction order(s); in view of any positions taken by Lexus, including but not limited to positions on claim construction, invalidity, and/or non-infringement; and in connection with the preparation and exchange of expert reports.


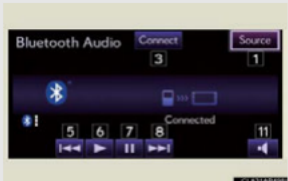
Claim	Support
49[P]. A multimedia device integration system, comprising:	Each accused Lexus automobile includes a device integration system, which supports integration of audio/video devices, such as freely lying smartphones and other smart devices connected via Bluetooth, as well as MP3 players (e.g., iPods and iPhones playing MP3 files). Accused Lexus automobiles also support device integration of smartphones and other smart devices (e.g., iPods and iPhones) for playing audio streamed over the Internet via online radio stations, such as Pandora, iTunes streaming, and Apple Music.

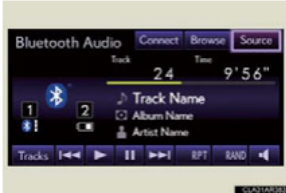
























Claim	Support
	 <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Play/Pause music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>See, e.g., www.lexus.com/bluetooth (as of November 3, 2015).</p>

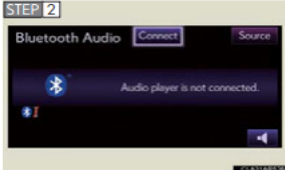
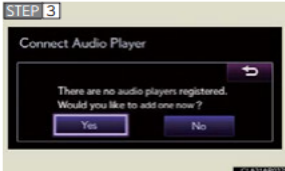
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <div style="border: 2px solid red; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <p>■ Control panel</p> <div>  <p>Audio control screen</p> <p>Playback/Pause button</p> <p>"PWR-VOL" knob Power Volume</p> <p>Track selector knob</p> <p>Track selector button</p> <p>Audio source selector button</p> </div> <p>414</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</i>¹</p>

¹ Blitzsafe has produced Ex. A, 2015 Lexus RX350 Owner's Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000884 – 1769. All pin-cites are to manual pages.

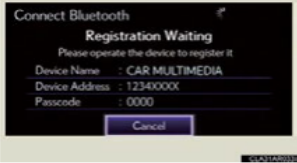
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <div style="border: 2px solid red; padding: 5px;"> <p>■ Control panel</p>  <p>Audio control screen</p> <p>Playback/ Pause button</p> <p>"PWR-VOL" knob Power Volume</p> <p>Track selector knob</p> <p>Track selector button</p> <p>Audio source selector button</p> </div> <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>


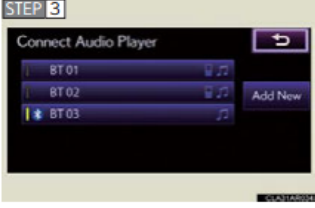
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 5px;">  </div> <div style="font-size: small;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) </div> </div> <div style="margin-top: 10px;"> <div style="border: 1px solid gray; padding: 5px;">  </div> <div style="font-size: small;"> <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> <p style="text-align: right; margin-top: 10px;">415</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

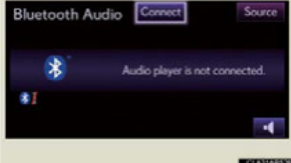
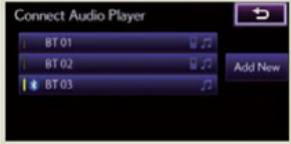
Claim	Support						
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Status display</p> <p>You can check such indicators as signal strength and battery charge on the screen.</p>  <div style="display: flex; justify-content: space-between; margin-left: 380px;"> <div style="text-align: left;"> <p>1 Connection status</p> <p>2 Battery charge</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Indicators</th> <th style="width: 70%;">Conditions</th> </tr> </thead> <tbody> <tr> <td>Connection status</td> <td> <div style="display: flex; justify-content: space-between; align-items: center;"> Good ← → Not connected </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div> </td> </tr> <tr> <td>Battery charge</td> <td> <div style="display: flex; justify-content: space-between; align-items: center;"> Full ← → Empty </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div> </td> </tr> </tbody> </table> </div> <p style="text-align: left; margin-top: 20px;">416</p> </div> <p style="margin-top: 10px;"><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 416.</i></p>	Indicators	Conditions	Connection status	<div style="display: flex; justify-content: space-between; align-items: center;"> Good ← → Not connected </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div>	Battery charge	<div style="display: flex; justify-content: space-between; align-items: center;"> Full ← → Empty </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div>
Indicators	Conditions						
Connection status	<div style="display: flex; justify-content: space-between; align-items: center;"> Good ← → Not connected </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div>						
Battery charge	<div style="display: flex; justify-content: space-between; align-items: center;"> Full ← → Empty </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;">     </div>						





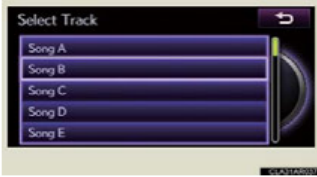
Claim	Support
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See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 417.


Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>STEP 4</p><p>Input the passcode displayed on the screen into your portable audio player.</p><p>For the operation of the portable audio player, see the manual that comes with your portable audio player.</p><p>Passcodes are not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the device, you may need to select "Yes" to register, or "No" to cancel on your Bluetooth® device.</p><p>If you want to cancel it, select "Cancel".</p><p>If a completion message is displayed, registration is complete.</p><p>If an error message is displayed, follow the guidance on the screen to try again.</p></div> <p>418</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 418.</i></p>

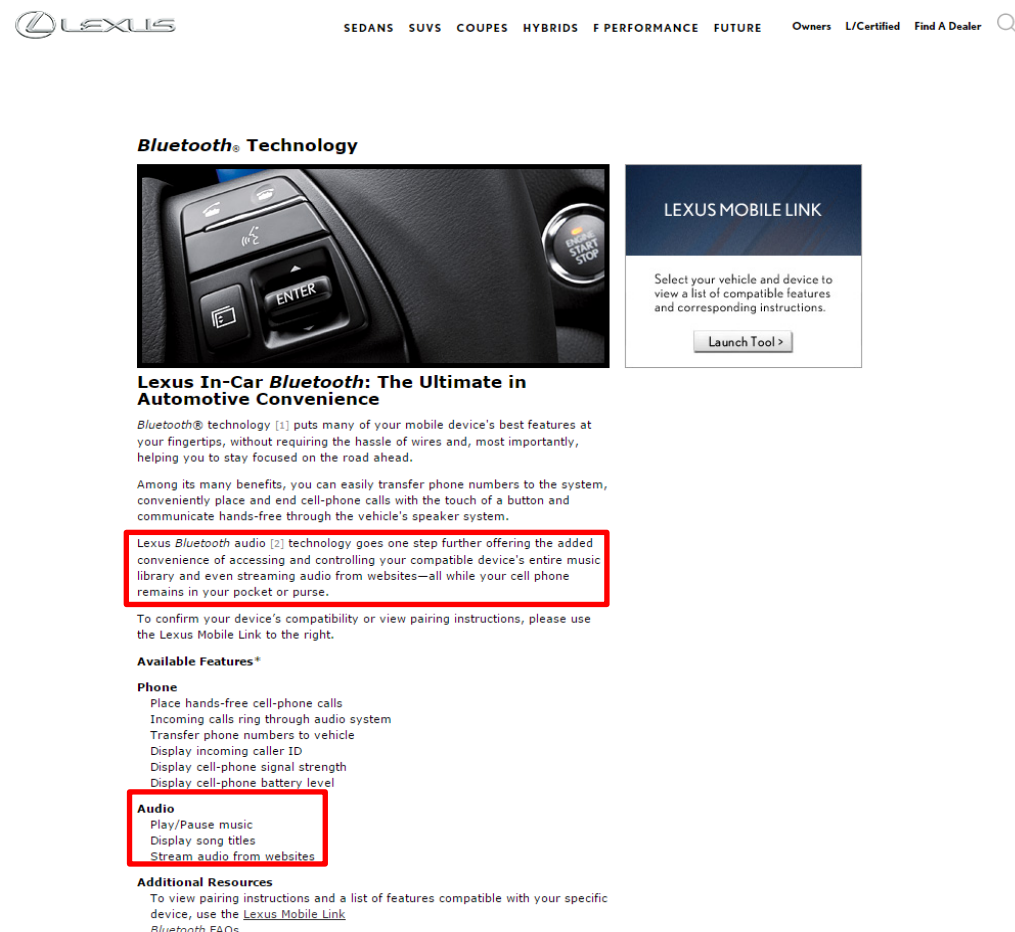
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px; margin: 10px 0;"> <p>Selecting the Bluetooth® audio player</p> <p>If multiple Bluetooth® devices are registered, follow the procedure below to select the Bluetooth® device to be used. You may only use one device at a time.</p> <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <p>STEP 2 Select "Connect".</p>  <p>STEP 3 Select the device to connect.</p>  <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="text-align: right;"> <p>"Add New": Registering a Bluetooth® device. (→P. 473)</p> <p>The selection indicator is displayed on left side of the selected device name.</p> <p>The Bluetooth® mark is displayed when you connected the device.</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;"> <p>3 Interior features</p> </div> </div> <p style="text-align: right; margin-top: 10px;">419</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 419.</p>

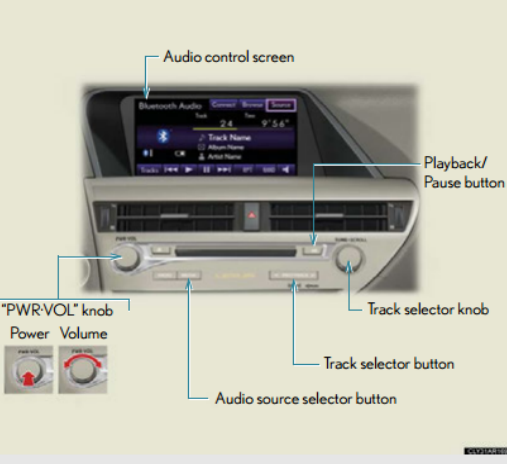
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Connecting the Bluetooth® audio player</p> <p>There are two connection methods available.</p> <ul style="list-style-type: none"> <li>■ When the connection method is set to "From Vehicle" When the portable audio player is on standby for the connection, it will be automatically connected whenever the "ENGINE START STOP" switch is in either ACCESSORY or IGNITION ON mode. <li>■ When the connection method is set to "From Audio Player" Operate the portable player and connect it to the Bluetooth® audio system. <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <div> <p>STEP 2 Select "Connect".</p>  </div> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <div> <p>STEP 3 Select the device to connect.</p> <p>A message is shown if connection has been successful. If connection fails, a message will be displayed and connection will be re-attempted.</p>  </div> </div> <p>420</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 420.</i></p>

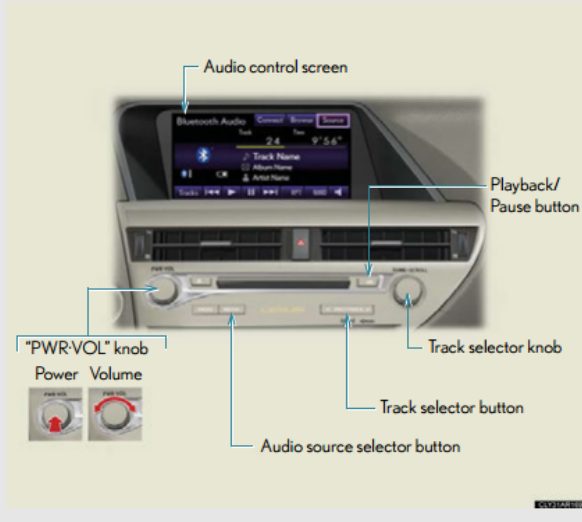
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red;"><p>Selecting, fast-forwarding and reversing tracks</p><p>■ Selecting a track Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired track number. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep.</p><p>■ Selecting a track from audio control screen Select  or . To fast-forward or reverse, select and hold  or  until you hear a beep.</p><p>■ Selecting a track from the list</p><p>▶ From "Tracks"</p><p>STEP 1 Select "Tracks" on the screen.</p><p>STEP 2 Select the desired track.</p></div> <p>3</p> <p>Interior features</p> <p>421</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 421.</i></p>

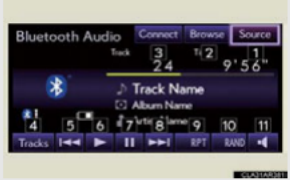

Claim	Support
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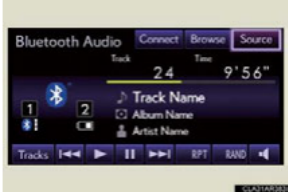
Claim	Support
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[49A] an integration subsystem in	Each device integration system of an accused Lexus automobile includes, among other things, an integration subsystem for connecting a car audio/video system to portable devices via a Bluetooth connection. The integration subsystem is in communication with at least one component of the car audio/video system. The integration subsystem channels audio

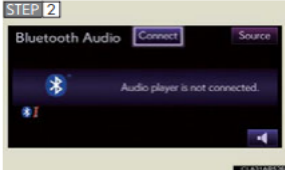
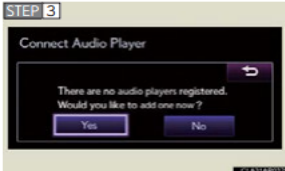
Claim	Support
<p>communication with a car audio/video system; and</p>	<p>signals to the car stereo from a portable device (such as an iPod, iPhone or other smart device) external to the car audio/video system.</p>  <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Play/Pause music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>From www.lexus.com/bluetooth (as of November 3, 2015).</p>

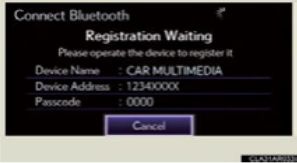
Claim	Support
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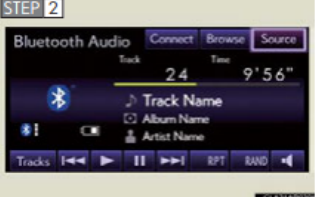

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <div style="border: 2px solid red; padding: 5px;"> <p>■ Control panel</p>  <p>Audio control screen</p> <p>Playback/ Pause button</p> <p>"PWR-VOL" knob Power Volume</p> <p>Track selector knob</p> <p>Track selector button</p> <p>Audio source selector button</p> </div> <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

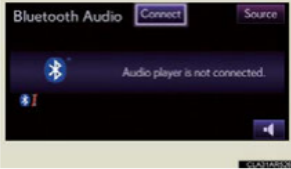
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">   </div> <div style="width: 50%;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> </div> <p style="text-align: right;">415</p> </div> <p style="text-align: center;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

Claim	Support												
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Status display</p> <p>You can check such indicators as signal strength and battery charge on the screen.</p>  <div> <p>1 Connection status</p> <p>2 Battery charge</p> </div> <table border="1"> <thead> <tr> <th>Indicators</th> <th colspan="3">Conditions</th> </tr> </thead> <tbody> <tr> <td>Connection status</td> <td>Good</td> <td>←→</td> <td>Not connected</td> </tr> <tr> <td>Battery charge</td> <td>Full</td> <td>←→</td> <td>Empty</td> </tr> </tbody> </table> </div> <p>416</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 416.</i></p>	Indicators	Conditions			Connection status	Good	←→	Not connected	Battery charge	Full	←→	Empty
Indicators	Conditions												
Connection status	Good	←→	Not connected										
Battery charge	Full	←→	Empty										

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px; margin: 10px 0;"> <p>Registering a Bluetooth® audio player</p> <p>To use the Bluetooth® audio system, you need to register your portable audio player into the system. Once registered, you can enjoy your music on the vehicle's audio system.</p> <p>You can register up to 5 devices in the system.</p> <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid gray; padding: 5px; margin-right: 10px;"> <p>STEP 2</p>  </div> <p>Select "Connect".</p> </div> <p>STEP 3</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid gray; padding: 5px; margin-right: 10px;">  </div> <p>Select "Yes".</p> </div> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <p style="text-align: right;">417</p> </div> <p style="text-align: right; margin-top: 10px;">3 Interior features</p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>STEP 4</p><p>Input the passcode displayed on the screen into your portable audio player.</p><p>For the operation of the portable audio player, see the manual that comes with your portable audio player.</p><p>Passcodes are not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the device, you may need to select "Yes" to register, or "No" to cancel on your Bluetooth® device.</p><p>If you want to cancel it, select "Cancel".</p><p>If a completion message is displayed, registration is complete.</p><p>If an error message is displayed, follow the guidance on the screen to try again.</p></div> <p>418</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 418.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>Selecting the Bluetooth® audio player</p> <p>If multiple Bluetooth® devices are registered, follow the procedure below to select the Bluetooth® device to be used. You may only use one device at a time.</p> <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <p>STEP 2 Select "Connect".</p>  <p>STEP 3 Select the device to connect.</p>  <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <div style="position: absolute; right: 10px; top: 400px; writing-mode: vertical-rl; transform: rotate(180deg);"> <p>3 Interior features</p> </div> <p style="text-align: right;">419</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 419.</p>

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Connecting the Bluetooth® audio player</p><p>There are two connection methods available.</p><ul style="list-style-type: none"><li>■ When the connection method is set to "From Vehicle" When the portable audio player is on standby for the connection, it will be automatically connected whenever the "ENGINE START STOP" switch is in either ACCESSORY or IGNITION ON mode.<li>■ When the connection method is set to "From Audio Player" Operate the portable player and connect it to the Bluetooth® audio system.<p>STEP 1 Display the "Bluetooth* Audio" screen.</p><p>STEP 2 Select "Connect".</p><p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p><p>STEP 3 Select the device to connect.</p><p>A message is shown if connection has been successful. If connection fails, a message will be displayed and connection will be re-attempted.</p></div> <p>420</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 420.</p>

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles


Claim	Support
<p>[49B] a first wireless interface in communication with said integration subsystem, said first wireless interface establishing a wireless communication link with a second wireless interface in communication with a portable device external to the car audio/video system,</p>	<p>Each device integration system accused the Lexus automobiles includes a first wireless interface (a Bluetooth interface in the form of a Bluetooth controller and/or antenna and related circuitry) in communication with the integration subsystem. The Bluetooth interface of the car audio/video system is operable to establish a wireless link with Bluetooth interfaces (second wireless interfaces) of and/or in communication with one or more portable devices external to the car audio/video system. Bluetooth pairing in the accused Lexus automobiles is shown below.</p>

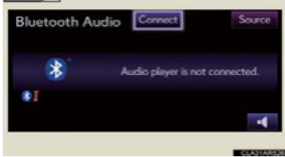
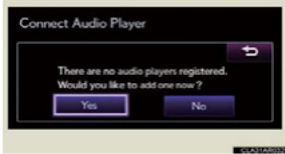
Claim	Support																																																																								
	<p>iOS: Supported Bluetooth profiles</p> <p>iPhone, iPad, and iPod touch support multiple Bluetooth profiles with the latest version of iOS. You can learn the differences in Bluetooth-profile support from one device to the next.</p> <p>The following table lists supported Bluetooth profiles by device for the latest version of iOS.</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Hands-Free Profile (HFP 1.6)</th> <th>Phone Book Access Profile (PBAP)</th> <th>Advanced Audio Distribution Profile (A2DP)</th> <th>Audio/Video Remote Control Profile (AVRCP 1.4)</th> <th>Personal Area Network Profile (PAN)</th> <th>Human Interface Device Profile (HID)</th> <th>Message Access Profile (MAP)</th> </tr> </thead> <tbody> <tr> <td>iPhone 4 and later</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>iPhone 3GS</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPhone 3G</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> </tr> <tr> <td>Original iPhone</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>iPad 2 and later</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPad (1st generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (4th generation and later)</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (2nd and 3rd generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> </tbody> </table> <p><i>See, e.g., Ex. C (Apple iPhone webpage).²</i></p>	Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)	iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓	iPhone 3GS	✓	✓	✓	✓	✓	✓	-	iPhone 3G	✓	✓	✓	✓	✓	-	-	Original iPhone	✓	✓	-	-	-	-	-	iPad 2 and later	✓	-	✓	✓	✓	✓	-	iPad (1st generation)	-	-	✓	✓	✓	✓	-	iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-	iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-
Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)																																																																		
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iPhone 3G	✓	✓	✓	✓	✓	-	-																																																																		
Original iPhone	✓	✓	-	-	-	-	-																																																																		
iPad 2 and later	✓	-	✓	✓	✓	✓	-																																																																		
iPad (1st generation)	-	-	✓	✓	✓	✓	-																																																																		
iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-																																																																		
iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-																																																																		

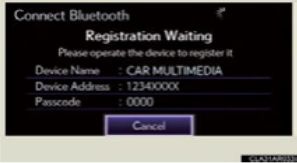
² Blitzsafe has produced Ex. C, Apple iPhone webpage, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0000001-3.


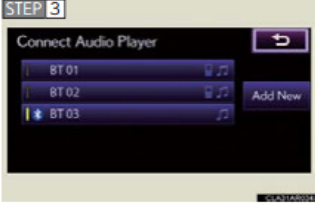
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

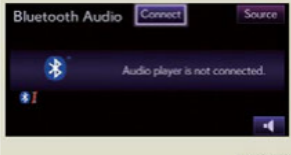
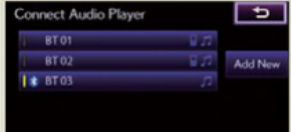
Claim	Support
	<i>See, e.g.</i> , http://developer.android.com/guide/topics/connectivity/bluetooth.html (discussing Bluetooth support for the Android platform).

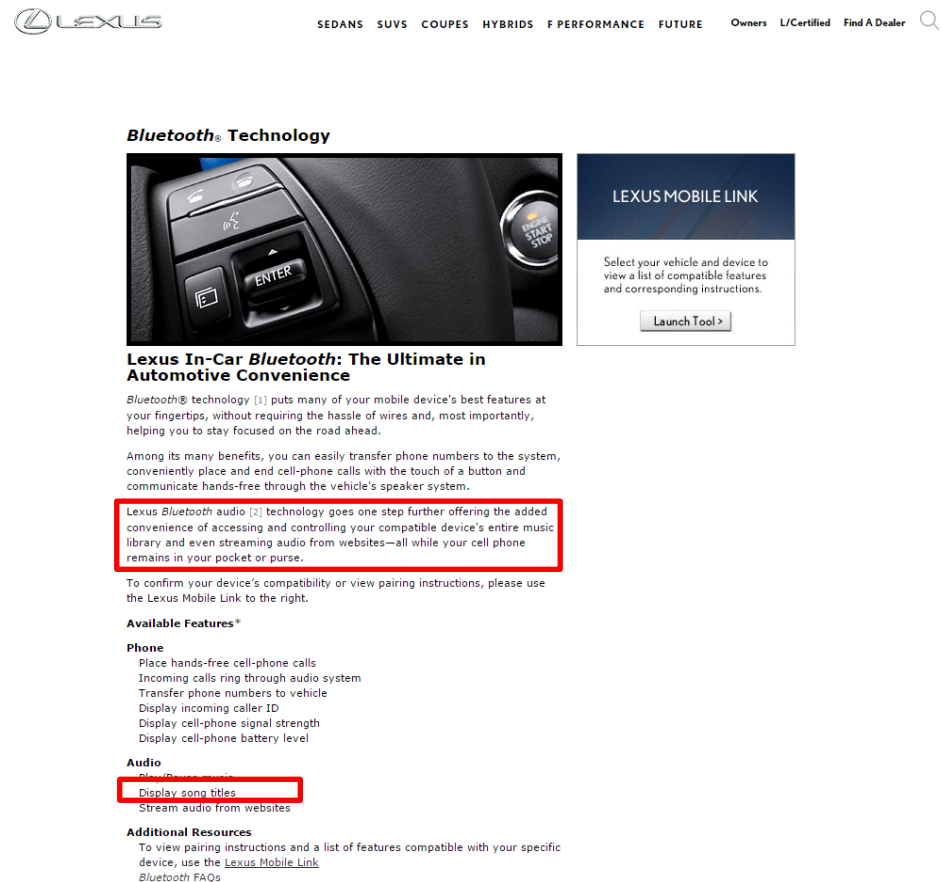
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</i></p>

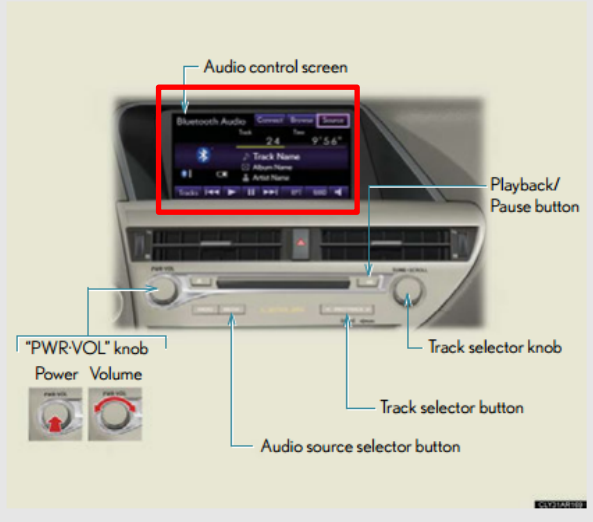
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <p>Registering a Bluetooth® audio player</p> <p>To use the Bluetooth® audio system, you need to register your portable audio player into the system. Once registered, you can enjoy your music on the vehicle's audio system.</p> <p>You can register up to 5 devices in the system.</p> <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <p>STEP 2</p> <p>Select "Connect".</p>  <p>STEP 3</p> <p>Select "Yes".</p>  <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>417</p> <p>3</p> <p>Interior features</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 417.</p>

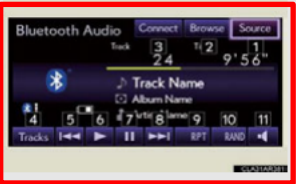
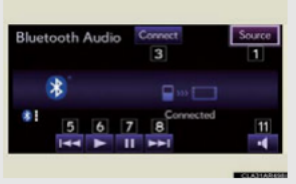
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>STEP 4</p><p>Input the passcode displayed on the screen into your portable audio player.</p><p>For the operation of the portable audio player, see the manual that comes with your portable audio player.</p><p>Passcodes are not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the device, you may need to select "Yes" to register, or "No" to cancel on your Bluetooth® device.</p><p>If you want to cancel it, select "Cancel".</p><p>If a completion message is displayed, registration is complete.</p><p>If an error message is displayed, follow the guidance on the screen to try again.</p></div> <p>418</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 418.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px; margin: 10px 0;"> <p>Selecting the Bluetooth® audio player</p> <p>If multiple Bluetooth® devices are registered, follow the procedure below to select the Bluetooth® device to be used. You may only use one device at a time.</p> <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <p>STEP 2 Select "Connect".</p>  <p>STEP 3 Select the device to connect.</p>  <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <div style="margin-top: 10px;"> <p style="text-align: right;">419</p> </div> </div> <p style="text-align: right; margin-top: 10px;">3 Interior features</p> <p style="margin-top: 10px;"><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 419.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Connecting the Bluetooth® audio player</p> <p>There are two connection methods available.</p> <ul style="list-style-type: none"> <li>■ When the connection method is set to "From Vehicle" When the portable audio player is on standby for the connection, it will be automatically connected whenever the "ENGINE START STOP" switch is in either ACCESSORY or IGNITION ON mode. <li>■ When the connection method is set to "From Audio Player" Operate the portable player and connect it to the Bluetooth® audio system. <p>STEP 1 Display the "Bluetooth* Audio" screen.</p> <div> <p>STEP 2</p>  <p>Select "Connect".</p> </div> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <div> <p>STEP 3</p>  <p>Select the device to connect.</p> <p>A message is shown if connection has been successful. If connection fails, a message will be displayed and connection will be re-attempted.</p> </div> </div> <p>420</p> <p><i>See, e.g.,</i> Ex. A (2015 Lexus RX350 Owner's Manual) at 420.</p> <p><i>See, e.g.,</i> Ex. A (2015 Lexus RX350 Owner's Manual) at 544-551 (Bluetooth setup instructions).</p> </div>

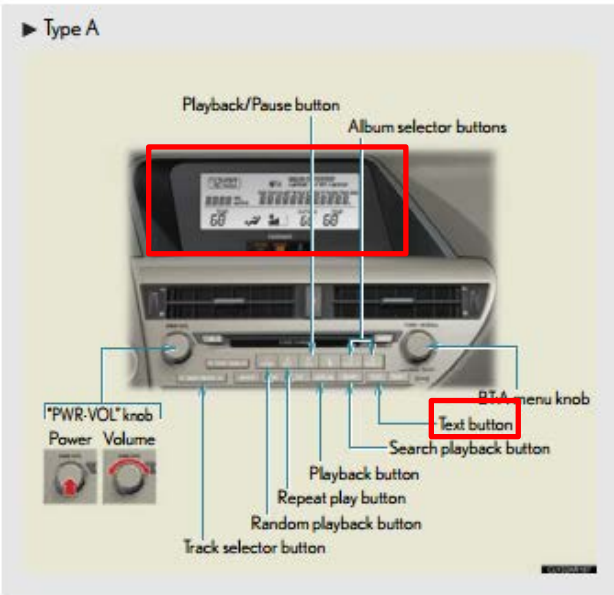
Claim	Support
<p>[49C] wherein said integration subsystem obtains, using said wireless communication link, information about an audio file stored on the portable device, transmits the information to the car audio/video system for subsequent display of the information on a display of the car audio/video system,</p>	<p>After establishing a wireless link with the portable device, information about an audio file stored on the portable device (such as the audio itself, as well as artist, album, and genre information) is communicated wirelessly from the portable device to the integration subsystem via the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and another Bluetooth interface in communication with and part of the portable device). The integration subsystem then transmits this information to the car audio/video system for subsequent display of the information on a display of the car audio/video system.</p>  <p>The screenshot shows the Lexus website's Bluetooth technology page. It includes a navigation menu with options like SEDANS, SUVs, COUPES, HYBRIDS, PERFORMANCE, and FUTURE. Below the navigation is a section titled 'Bluetooth® Technology' with an image of the car's infotainment system. To the right is a 'LEXUS MOBILE LINK' section with a 'Launch Tool >' button. The main text describes the benefits of Bluetooth technology, including hands-free calling and audio streaming. A red box highlights the text: 'Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.' Another red box highlights the feature 'Display song titles' under the 'Audio' section. At the bottom, it says 'From www.lexus.com/bluetooth (as of November 3, 2015).'</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  </div> <div style="flex: 2; padding-left: 10px;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> <div style="margin-top: 20px;">  </div> <p style="text-align: right;">415</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

3

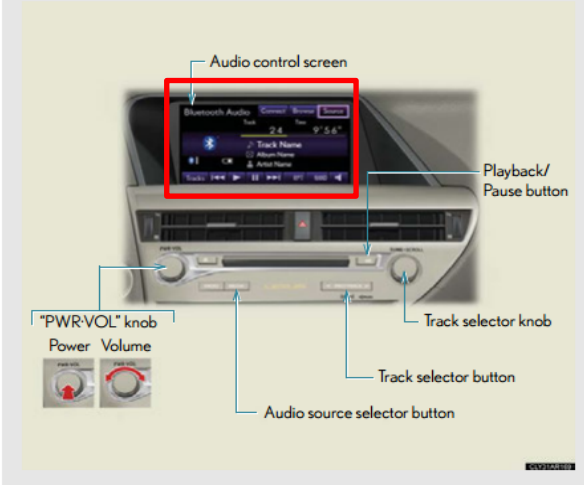
Interior features

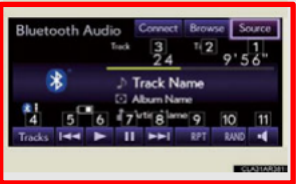
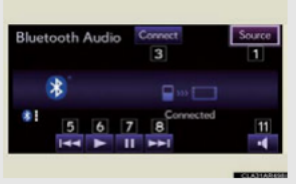
Claim	Support
	<p>3-4. Using the audio system Operating a Bluetooth® enabled portable player</p> <p>▶ Type A</p>  <p>540</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 540.</p>





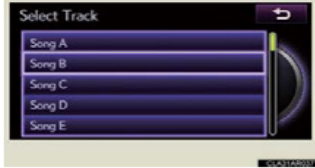
Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red;"><p>Switching the display</p><p>Press TEXT.</p><p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p></div> <ul style="list-style-type: none"><li>■ Bluetooth[®] audio system functions Depending on the portable player that is connected to the system, certain functions may not be available.<li>■ Display →P. 497<li>■ Error messages "Memory Error": This indicates a problem in the system. <p style="text-align: right;">3 Infotainment features</p> <p style="text-align: right;">543</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 543.</p>

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles



Claim	Support
<p>[49D] said integration subsystem ... instructs the portable device to play the audio file in response to a user selecting the audio file using controls of the car audio/video system, and receives audio generated by the portable device over said wireless communication link for playing on the car audio/video system.</p>	<p>With respect to each device integration system of the accused Lexus automobiles, a user can input commands via buttons and controls of the car audio/video system to (i) select a track or album; (ii) fast forward or reverse a track; and (iii) play and pause a track. When a user selects one of these commands, the integration subsystem instructs the portable device to play the audio file, which is received by the integration subsystem via the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and another in communication with and part of the portable device). The audio file is then played via the car stereo's speakers.</p>


Claim	Support
	<div> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG. Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

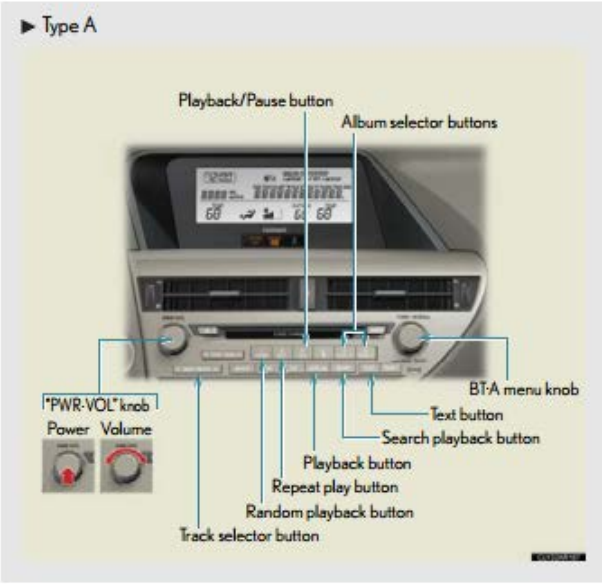
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  </div> <div style="flex: 2; padding-left: 10px;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> <div style="margin-top: 20px;">  </div> <p style="text-align: right;">415</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

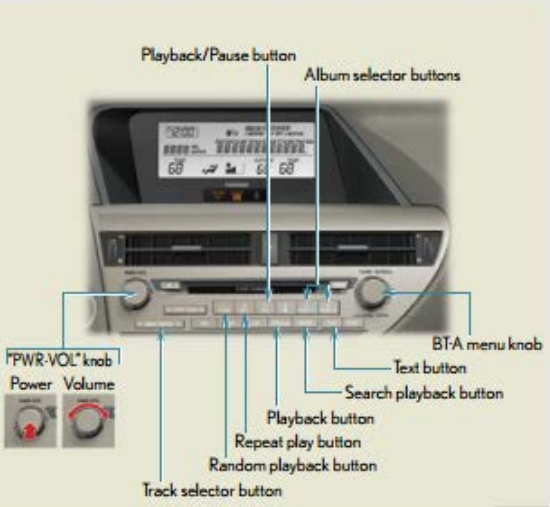
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red;"><p>Selecting, fast-forwarding and reversing tracks</p><p>■ Selecting a track</p><p>Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired track number.</p><p>To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep.</p><p>■ Selecting a track from audio control screen</p><p>Select  or .</p><p>To fast-forward or reverse, select and hold  or  until you hear a beep.</p><p>■ Selecting a track from the list</p><p>▶ From "Tracks"</p><p>STEP 1 Select "Tracks" on the screen.</p><p>STEP 2</p><div></div><p>Select the desired track.</p></div> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Interior features</p> <p>421</p>












See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 421.

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>► From "Browse"</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired item. Continue to select the applicable screen button until its track list is displayed.</p>  <p>STEP 3 Select the desired track.</p>  <p>Random playback</p> <p>Each time RAND is selected, the mode changes in the following order:</p> <pre> graph TD A["▶RAND: Random play on the album"] --> B["◻RAND: Random play in all the album"] B --> C["RAND: Off"] C --> A </pre> <p style="text-align: left;">422</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 422.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px; margin-bottom: 10px;"> <p>Repeat play</p> <p>Each time RPT is selected, the mode changes in the following order:</p>  <pre> graph TD A["RPT: Track repeat"] --> B["RPT: Album repeat"] B --> C["RPT: Off"] C --> A </pre> </div> <ul style="list-style-type: none"> ■ When using the Bluetooth® audio system <ul style="list-style-type: none"> ● In the following conditions, the system may not function. <ul style="list-style-type: none"> • If the portable audio player is turned off • If the portable audio player is not connected • If the portable audio player's battery is low • If the portable player is behind the seat or in the glove box or console box • If metal is covering or touching the portable player ● There may be a delay if phone connection is carried out during Bluetooth® audio play. ● Depending on the type of portable audio player that is connected to the system, operation may differ slightly and certain functions may not be available. ■ Bluetooth® antenna <p>The antenna is built into the display. If the portable audio player is behind the seat or in the glove box or console box, or is touching or covered by metal objects, connection status may deteriorate.</p> ■ Battery charge/signal status <p>This display may not correspond exactly with the portable audio player, and this system does not have a charging function.</p> <p style="text-align: right;">423</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 423.</p>

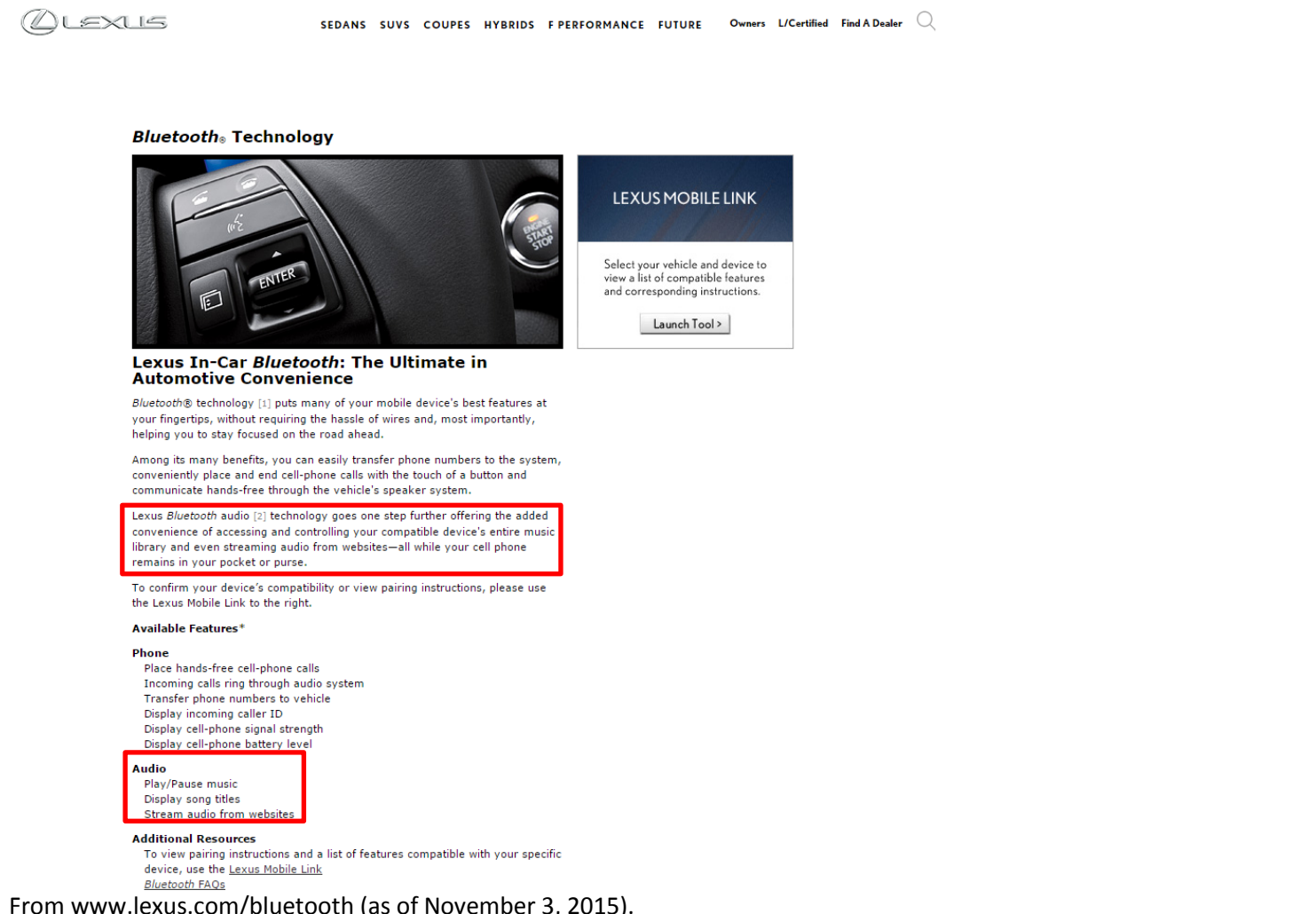
Claim	Support
	<p>3-4. Using the audio system Operating a Bluetooth® enabled portable player</p> <p>▶ Type A</p>  <p>540</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 540</i></p>

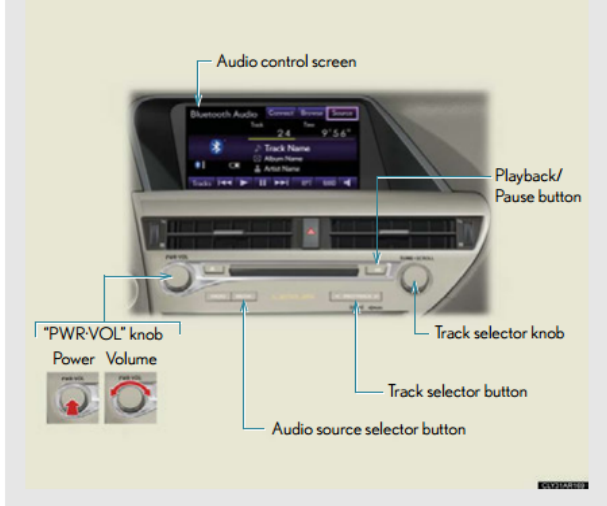
Claim	Support
	<div style="background-color: #cccccc; padding: 5px; text-align: center;">3-4. Using the audio system</div> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>▶ Type B</p>  <p>The diagram shows a car audio unit with the following labeled components:</p> <ul style="list-style-type: none"> Playback/Pause button Album selector buttons BT-A menu knob Text button Search playback button Playback button Repeat play button Random playback button Track selector button "PWR-VOL" knob (Power and Volume) </div> <div style="background-color: #cccccc; padding: 5px; text-align: center; font-size: small;">3 Interior features</div> <div style="text-align: center; margin-top: 20px;">541</div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 541.</i></p>


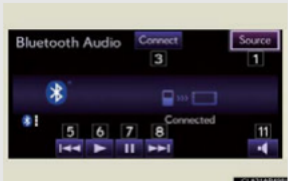
Claim	Support
	<div style="background-color: #cccccc; padding: 5px;">3-4. Using the audio system</div> <div style="border: 1px solid black; padding: 2px;">Selecting an album</div> <p>To select the desired album, press  or .</p> <div style="border: 1px solid black; padding: 2px;">Selecting tracks</div> <p>Press ">" or "<" on  to select the desired track.</p> <div style="border: 1px solid black; padding: 2px;">Playing and pausing tracks</div> <p>To play or pause a track, press .</p> <div style="border: 1px solid black; padding: 2px;">Fast-forwarding and reversing tracks</div> <p>To fast-forward or reverse, press and hold ">" or "<" on  until you hear a beep.</p> <div style="border: 1px solid black; padding: 2px;">Random playback</div> <p>Press .</p> <p>To cancel, press  again.</p> <div style="border: 1px solid black; padding: 2px;">Repeat play</div> <p>Press .</p> <p>To cancel, press  again.</p> <div style="border: 1px solid black; padding: 2px;">Scanning tracks</div> <p>Press .</p> <p>To cancel, press  again.</p> <p>542</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 542.</i></p>

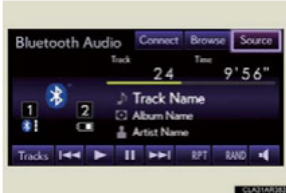
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles





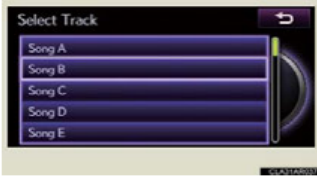
Claim	Support
50. The system of claim 49, wherein said integration subsystem is positioned within the car audio/video system.	Each car audio/video system of the accused Lexus automobiles includes the integration subsystem for connecting to external portable devices (such as iPhones) via a wireless Bluetooth interface. Once connected, the portable device may be controlled directly from the car audio/video system. Commands, which are received from buttons and other controls of the car audio/video system, may be communicated wirelessly via the Bluetooth interface to the portable device. The portable device then responds to the received commands by channeling audio and other information (such as track name, artist, album, etc.) to the car audio/video system by way of the first and second wireless interfaces and the integration subsystem.



Claim	Support
	 <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none">Place hands-free cell-phone callsIncoming calls ring through audio systemTransfer phone numbers to vehicleDisplay incoming caller IDDisplay cell-phone signal strengthDisplay cell-phone battery level <p>Audio</p> <ul style="list-style-type: none">Play/Pause musicDisplay song titlesStream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>From www.lexus.com/bluetooth (as of November 3, 2015).</p>


Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

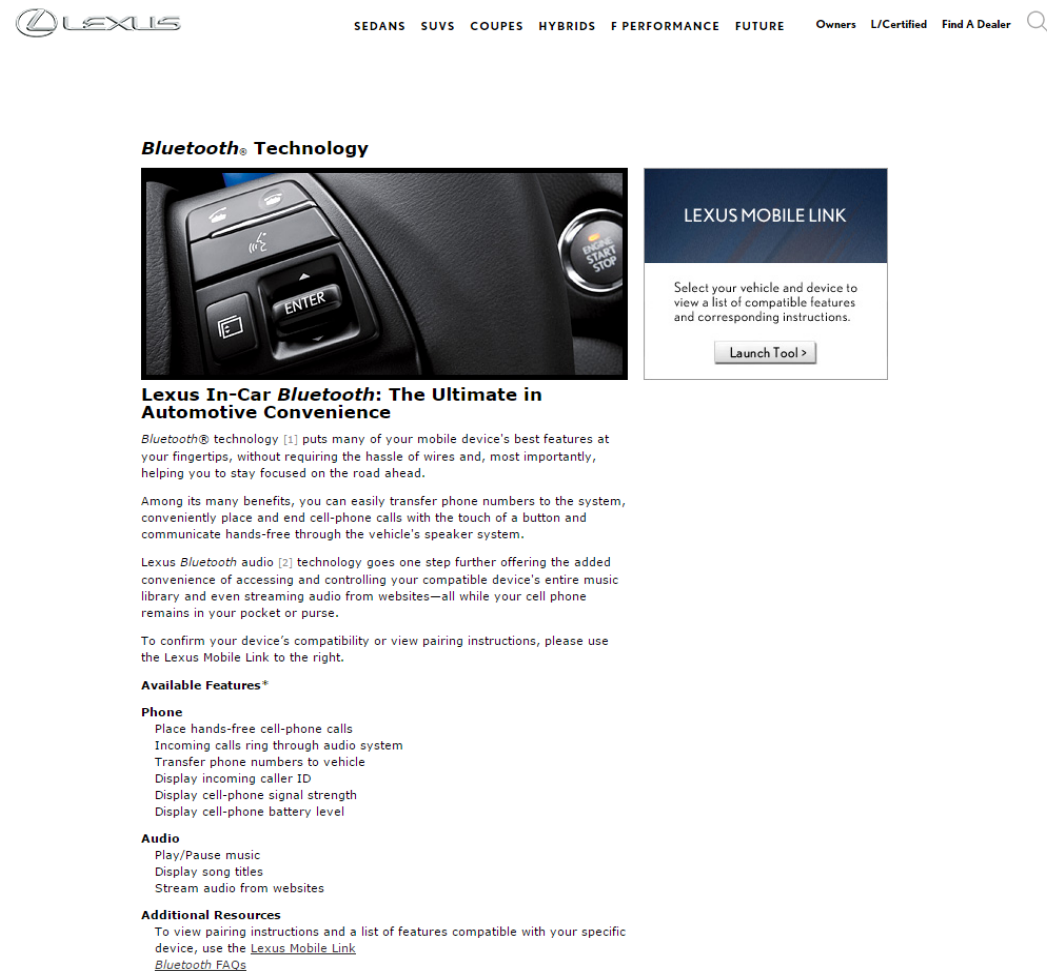
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 5px;">  </div> <div> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) </div> </div> <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> <div style="border: 1px solid gray; padding: 5px;">  </div> <p style="text-align: right;">415</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</i></p>

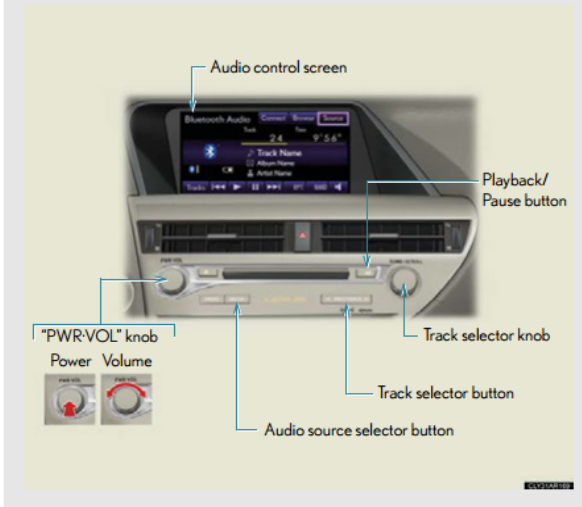
Claim	Support									
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Status display</p> <p>You can check such indicators as signal strength and battery charge on the screen.</p>  <div style="display: flex; justify-content: space-between; margin-left: 380px;"> <div style="text-align: left;"> <p>1 Connection status</p> <p>2 Battery charge</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Indicators</th> <th colspan="2">Conditions</th> </tr> </thead> <tbody> <tr> <td>Connection status</td> <td style="text-align: center;">Good ←→ Not connected</td> <td></td> </tr> <tr> <td>Battery charge</td> <td style="text-align: center;">Full ←→ Empty</td> <td></td> </tr> </tbody> </table> </div> <p style="text-align: left; margin-top: 20px;">416</p> </div> <p style="margin-top: 10px;"><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 416.</i></p>	Indicators	Conditions		Connection status	Good ←→ Not connected		Battery charge	Full ←→ Empty	
Indicators	Conditions									
Connection status	Good ←→ Not connected									
Battery charge	Full ←→ Empty									

Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Selecting, fast-forwarding and reversing tracks</p><p>■ Selecting a track Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired track number. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep.</p><p>■ Selecting a track from audio control screen Select  or . To fast-forward or reverse, select and hold  or  until you hear a beep.</p><p>■ Selecting a track from the list</p><p>▶ From "Tracks"</p><p>STEP 1 Select "Tracks" on the screen.</p><p>STEP 2 Select the desired track.</p></div> <p>3</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Interior features</p> <p>421</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 421.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>► From "Browse"</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired item. Continue to select the applicable screen button until its track list is displayed.</p>  <p>STEP 3 Select the desired track.</p>  <p>Random playback</p> <p>Each time RAND is selected, the mode changes in the following order:</p> <pre> graph TD A["▶ RAND: Random play on the album"] --> B["◻ RAND: Random play in all the album"] B --> C["RAND: Off"] C --> A </pre> <p style="text-align: left;">422</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 422.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px; margin-bottom: 10px;"> <p>Repeat play</p> <p>Each time RPT is selected, the mode changes in the following order:</p>  </div> <ul style="list-style-type: none"> ■ When using the Bluetooth® audio system <ul style="list-style-type: none"> ● In the following conditions, the system may not function. <ul style="list-style-type: none"> • If the portable audio player is turned off • If the portable audio player is not connected • If the portable audio player's battery is low • If the portable player is behind the seat or in the glove box or console box • If metal is covering or touching the portable player ● There may be a delay if phone connection is carried out during Bluetooth® audio play. ● Depending on the type of portable audio player that is connected to the system, operation may differ slightly and certain functions may not be available. ■ Bluetooth® antenna <p>The antenna is built into the display. If the portable audio player is behind the seat or in the glove box or console box, or is touching or covered by metal objects, connection status may deteriorate.</p> ■ Battery charge/signal status <p>This display may not correspond exactly with the portable audio player, and this system does not have a charging function.</p> <p style="text-align: right;">423</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 423.</p> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 540-42 (Bluetooth controls).</p>

Claim	Support
<p>51. The system of claim 50, wherein said first wireless interface is positioned within the car audio/video system.</p>	<p>The first wireless interface (i.e., the Bluetooth interface) is part of the car audio/video system.</p>  <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Play/Pause music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>See, e.g., www.lexus.com/bluetooth (as of November 3, 2015).</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <div style="border: 2px solid red; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <p>■ Control panel</p> <div>  <p>Audio control screen</p> <p>Playback/ Pause button</p> <p>"PWR:VOL" knob Power Volume</p> <p>Track selector knob</p> <p>Track selector button</p> <p>Audio source selector button</p> </div> <p>414</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</i></p>

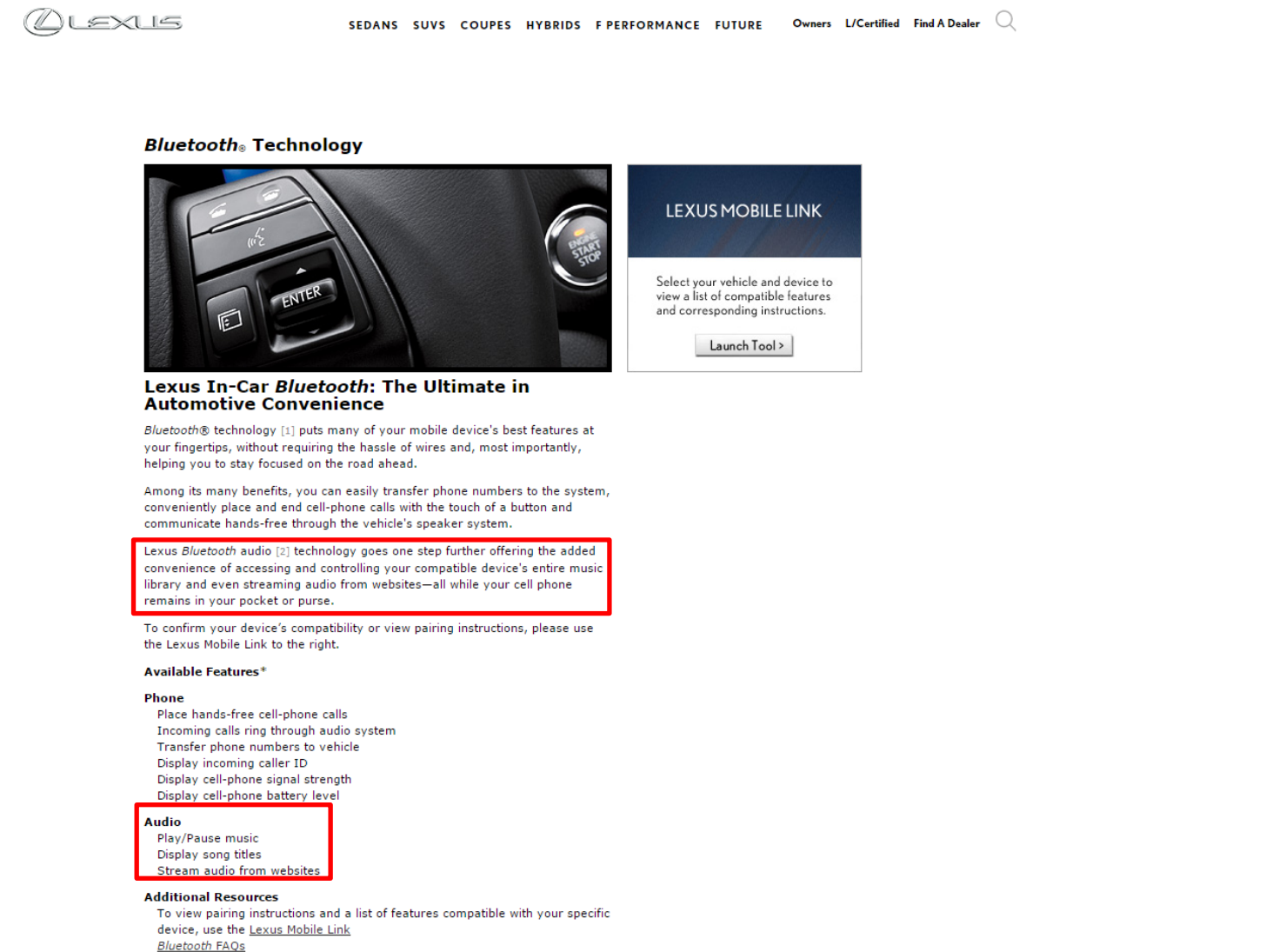
Claim	Support										
	<div style="background-color: #444; color: white; padding: 5px;"> <p>3-4. Using the audio system Bluetooth® audio system</p> </div> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>The Bluetooth® audio system enables you to enjoy music played on a portable digital audio player (portable player) from the vehicle speakers via wireless communication.</p> <p>This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #444; color: white;">Title</th> <th style="background-color: #444; color: white;">Page</th> </tr> </thead> <tbody> <tr> <td>Using the Bluetooth® audio system</td> <td>P. 535</td> </tr> <tr> <td>Operating a Bluetooth® enabled portable player</td> <td>P. 540</td> </tr> <tr> <td>Setting up a Bluetooth® enabled portable player</td> <td>P. 544</td> </tr> <tr> <td>Bluetooth® audio system setup</td> <td>P. 551</td> </tr> </tbody> </table> </div> <div style="margin-top: 10px;"> <p>■ Conditions under which the system will not operate</p> <ul style="list-style-type: none"> ● If using a portable player that does not support Bluetooth® ● If the portable player is switched off ● If the portable player is not connected ● If the portable player's battery is low ● If the portable player is behind the seat or in the glove box or console box ● If metal is covering or touching the portable player </div> <div style="margin-top: 20px;"> <p>530</p> </div> <div style="margin-top: 20px;"> <p><i>See, e.g.,</i> Ex. A (2015 Lexus RX350 Owner's Manual) at 530.</p> </div>	Title	Page	Using the Bluetooth® audio system	P. 535	Operating a Bluetooth® enabled portable player	P. 540	Setting up a Bluetooth® enabled portable player	P. 544	Bluetooth® audio system setup	P. 551
Title	Page										
Using the Bluetooth® audio system	P. 535										
Operating a Bluetooth® enabled portable player	P. 540										
Setting up a Bluetooth® enabled portable player	P. 544										
Bluetooth® audio system setup	P. 551										

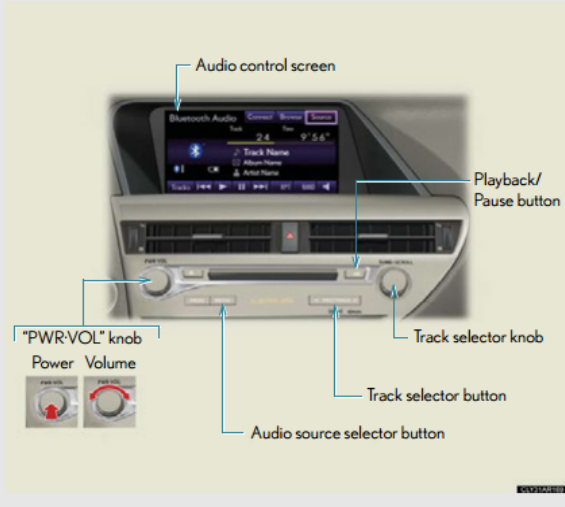
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

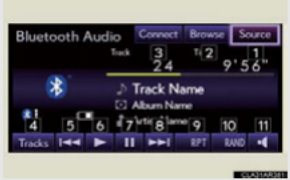

Claim	Support																																																																								
<p>52. The system of claim 51, wherein said second wireless interface is positioned within the portable device.</p>	<p>Portable devices, such as iPhones, iPads, iPods, Android phones and other smart, portable devices, include Bluetooth interfaces for connecting to the accused Lexus systems.</p> <p>iOS: Supported Bluetooth profiles</p> <p>iPhone, iPad, and iPod touch support multiple Bluetooth profiles with the latest version of iOS. You can learn the differences in Bluetooth-profile support from one device to the next.</p> <p>The following table lists supported Bluetooth profiles by device for the latest version of iOS.</p> <table border="1"> <thead> <tr> <th>Device</th> <th>Hands-Free Profile (HFP 1.6)</th> <th>Phone Book Access Profile (PBAP)</th> <th>Advanced Audio Distribution Profile (A2DP)</th> <th>Audio/Video Remote Control Profile (AVRCP 1.4)</th> <th>Personal Area Network Profile (PAN)</th> <th>Human Interface Device Profile (HID)</th> <th>Message Access Profile (MAP)</th> </tr> </thead> <tbody> <tr> <td>iPhone 4 and later</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>iPhone 3GS</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPhone 3G</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> </tr> <tr> <td>Original iPhone</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>iPad 2 and later</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPad (1st generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (4th generation and later)</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>iPod touch (2nd and 3rd generation)</td> <td>-</td> <td>-</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> </tbody> </table> <p>See, e.g., Ex. C (Apple iPhone webpage).</p>	Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)	iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓	iPhone 3GS	✓	✓	✓	✓	✓	✓	-	iPhone 3G	✓	✓	✓	✓	✓	-	-	Original iPhone	✓	✓	-	-	-	-	-	iPad 2 and later	✓	-	✓	✓	✓	✓	-	iPad (1st generation)	-	-	✓	✓	✓	✓	-	iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-	iPod touch (2nd and 3rd generation)	-	-	✓	✓	✓	✓	-
Device	Hands-Free Profile (HFP 1.6)	Phone Book Access Profile (PBAP)	Advanced Audio Distribution Profile (A2DP)	Audio/Video Remote Control Profile (AVRCP 1.4)	Personal Area Network Profile (PAN)	Human Interface Device Profile (HID)	Message Access Profile (MAP)																																																																		
iPhone 4 and later	✓	✓	✓	✓	✓	✓	✓																																																																		
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iPhone 3G	✓	✓	✓	✓	✓	-	-																																																																		
Original iPhone	✓	✓	-	-	-	-	-																																																																		
iPad 2 and later	✓	-	✓	✓	✓	✓	-																																																																		
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iPod touch (4th generation and later)	✓	-	✓	✓	✓	✓	-																																																																		
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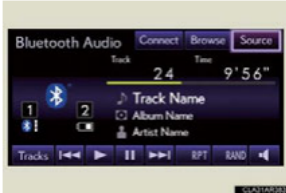
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles






Claim	Support
	<i>See, e.g.</i> , http://developer.android.com/guide/topics/connectivity/bluetooth.html (discussing Bluetooth support for the Android platform).
53. The system of claim 49, wherein said integration subsystem receives a control command issued at the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution thereby.	The integration subsystem of each accused Lexus automobile “receives a control command issued at the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution thereby.” More specifically, once a portable device is connected, commands are received by the integration subsystem from the car audio/video system, where they are processed and converted from a format understandable and compatible with the car audio/video system and associated Lexus protocols (i.e., a format incompatible with the portable device) into formatted commands that are compatible with the portable device (i.e., converted into Bluetooth, application and/or device-specific protocols understandable to the portable device). These formatted commands are then dispatched to the portable device via the first and second wireless interfaces (i.e., the Bluetooth interface of the car audio/video system and one or more Bluetooth interfaces in communication with and part of the portable device), where they are executed by the portable device. It is believed that at least a microcontroller of the integration subsystem (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is also believed that this code is stored in onboard flash and/or other memory modules, and/or is contained within firmware elsewhere in the integration subsystem (such as within a microcontroller itself).



Claim	Support
	 <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Play/Pause music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>From www.lexus.com/bluetooth (as of November 3, 2015).</p>


Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</i></p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">   </div> <div style="width: 50%;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> </div> <p style="text-align: right;">415</p> </div> <p style="text-align: center;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

Claim	Support									
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px;"> <p>Status display</p> <p>You can check such indicators as signal strength and battery charge on the screen.</p>  <div style="display: flex; justify-content: space-between; margin-left: 380px;"> <div style="text-align: left;"> <p>1 Connection status</p> <p>2 Battery charge</p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Indicators</th> <th colspan="2">Conditions</th> </tr> </thead> <tbody> <tr> <td>Connection status</td> <td style="text-align: center;">Good ←→ Not connected</td> <td></td> </tr> <tr> <td>Battery charge</td> <td style="text-align: center;">Full ←→ Empty</td> <td></td> </tr> </tbody> </table> </div> <p style="text-align: center; margin-top: 20px;">416</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 416.</i></p>	Indicators	Conditions		Connection status	Good ←→ Not connected		Battery charge	Full ←→ Empty	
Indicators	Conditions									
Connection status	Good ←→ Not connected									
Battery charge	Full ←→ Empty									

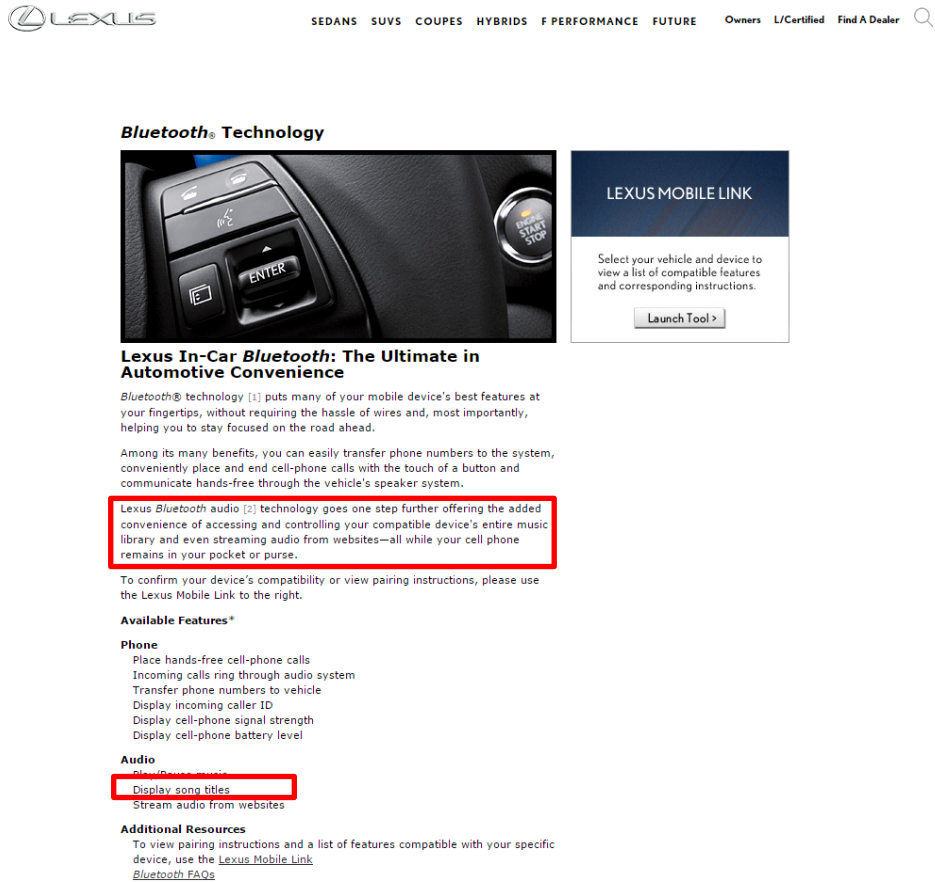
Claim	Support
	<p>3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 10px;"><p>Selecting, fast-forwarding and reversing tracks</p><p>■ Selecting a track Press "<" or ">" on the "PRST-TRACK" button or turn the "TUNE-SCROLL" knob to select the desired track number. To fast-forward or reverse, press and hold ">" or "<" on the "PRST-TRACK" button until you hear a beep.</p><p>■ Selecting a track from audio control screen Select  or . To fast-forward or reverse, select and hold  or  until you hear a beep.</p><p>■ Selecting a track from the list</p><p>▶ From "Tracks"</p><p>STEP 1 Select "Tracks" on the screen.</p><p>STEP 2  Select the desired track.</p></div> <p>3</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Interior features</p> <p>421</p> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 421.</i></p>

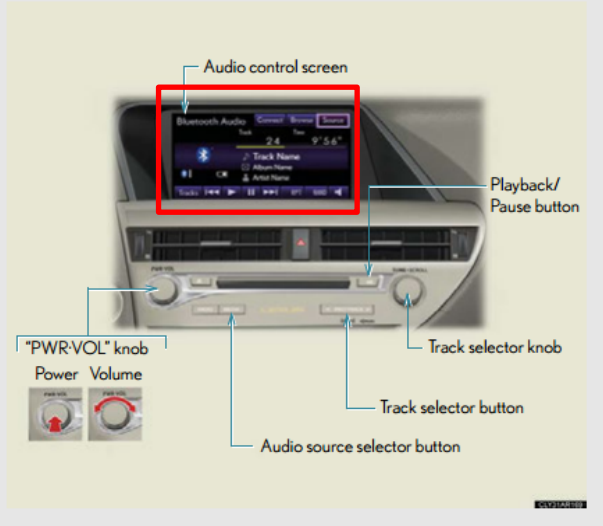
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>► From "Browse"</p> <p>STEP 1 Select "Browse" on the screen.</p> <p>STEP 2 Select the desired item. Continue to select the applicable screen button until its track list is displayed.</p>  <p>STEP 3 Select the desired track.</p>  <p>Random playback</p> <p>Each time RAND is selected, the mode changes in the following order:</p> <pre> graph TD A["▶RAND: Random play on the album"] --> B["◻RAND: Random play in all the album"] B --> C["RAND: Off"] C --> A </pre> <p style="text-align: left;">422</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 422.</p>

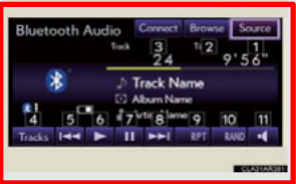
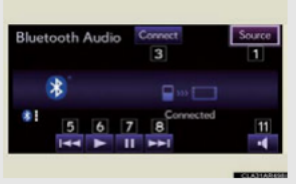
Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <div style="border: 2px solid red; padding: 5px; margin-bottom: 10px;"> <p>Repeat play</p> <p>Each time RPT is selected, the mode changes in the following order:</p>  </div> <ul style="list-style-type: none"> ■ When using the Bluetooth® audio system <ul style="list-style-type: none"> ● In the following conditions, the system may not function. <ul style="list-style-type: none"> • If the portable audio player is turned off • If the portable audio player is not connected • If the portable audio player's battery is low • If the portable player is behind the seat or in the glove box or console box • If metal is covering or touching the portable player ● There may be a delay if phone connection is carried out during Bluetooth® audio play. ● Depending on the type of portable audio player that is connected to the system, operation may differ slightly and certain functions may not be available. ■ Bluetooth® antenna <p>The antenna is built into the display. If the portable audio player is behind the seat or in the glove box or console box, or is touching or covered by metal objects, connection status may deteriorate.</p> ■ Battery charge/signal status <p>This display may not correspond exactly with the portable audio player, and this system does not have a charging function.</p> <p style="text-align: right;">423</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 423.</p> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 540-42 (Bluetooth controls).</p>

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>54. The system of claim 49, wherein said integration subsystem receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.</p>	<p>The integration subsystem of each of the accused Lexus automobiles “receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.” More specifically, the portable device transmits data (such as audio, video, songs, album, track, cover art, genre and artist information) to the integration subsystem of the car audio/video system via the first and second wireless interfaces (i.e., the Bluetooth interface of the car audio/video system and one or more Bluetooth interfaces in communication with and part of the portable device). The integration subsystem then processes and converts the data from a format incompatible with the car audio/video system and understandable and compatible with the portable device (i.e., Bluetooth, application and/or device-specific protocols understandable to the portable device) into formatted data compatible with the car audio/video system (i.e., formatted data understandable and compatible with the car audio/video system and associated Lexus protocols). The formatted data is then transmitted by the integration subsystem to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system. It is believed that at least a microcontroller of the integration subsystem (and potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-programmed code to perform at least a portion of these functions. It is also believed that this code is stored in onboard flash and/or other memory modules, and/or is contained within firmware elsewhere in the integration subsystem (such as within a microcontroller itself).</p>

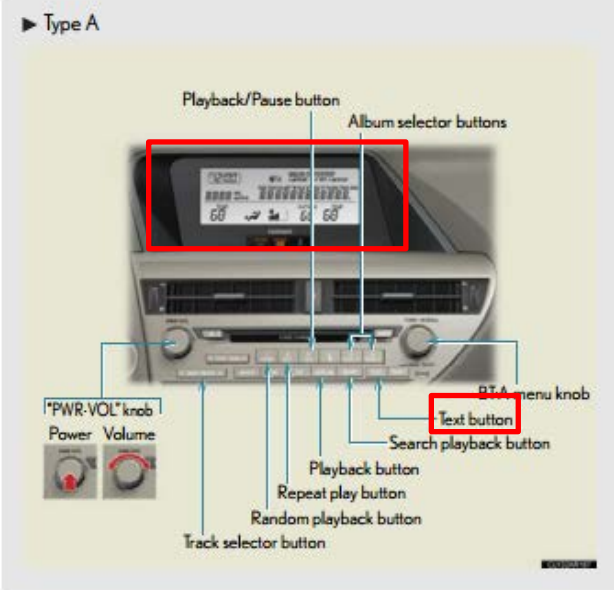
Claim	Support
	 <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Stream music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>From www.lexus.com/bluetooth (as of November 3, 2015).</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth*".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> <p>■ Control panel</p>  <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p style="text-align: center;">3-3. Using the Lexus Display Audio system</p> <p>■ Audio control screen Pressing the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller displays the audio control screen from any screens of the selected source.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 50%;"> <ol style="list-style-type: none"> 1 Audio source selection screen appears 2 Displaying the list 3 Connecting a Bluetooth® audio player 4 Displaying the track list 5 Select: Playing the previous track Select and hold: Reversing a track 6 Playback 7 Pause 8 Select: Playing the next track Select and hold: Fast-forwarding a track 9 Repeat play 10 Random playback 11 Setting the sound (→P. 428) <p>Some titles and controls may not be displayed depending on the type of portable audio player.</p> </div> </div> <div style="margin-top: 20px;">  </div> <p style="text-align: right;">415</p> </div> <p style="margin-top: 10px;">See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 415.</p>

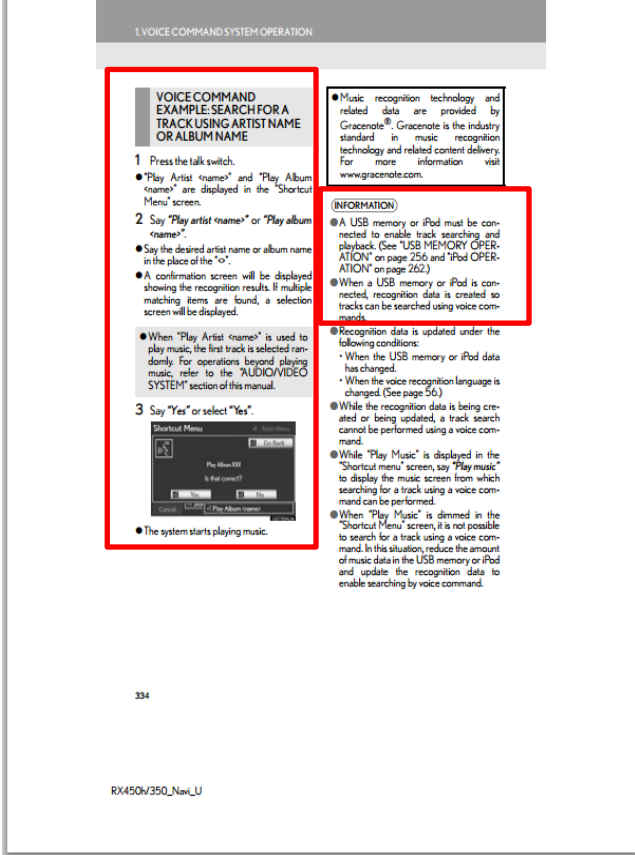
3

Interior features

Claim	Support
	<p>3-4. Using the audio system Operating a Bluetooth® enabled portable player</p> <p>▶ Type A</p>  <p>540</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 540.</p>

Claim	Support
	<p>3-4. Using the audio system</p> <div style="border: 2px solid red;"><p>Switching the display</p><p>Press TEXT.</p><p>Each time the button is pressed, the display changes in the following order: Elapsed time → Album title → Track title → Artist name</p></div> <ul style="list-style-type: none"><li>■ Bluetooth[®] audio system functions Depending on the portable player that is connected to the system, certain functions may not be available.<li>■ Display →P. 497<li>■ Error messages "Memory Error": This indicates a problem in the system. <p style="text-align: right;">3 Infotainment features</p> <p style="text-align: right;">543</p> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 543.</p>

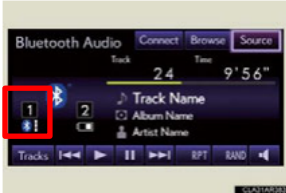
Claim	Support
<p>55. The system of claim 49, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by a user.</p>	<p>The accused Lexus automobiles permit various control and audio commands to be submitted via voice recognition, which is processed by a voice recognition subsystem of the head unit. Voice recognition of spoken control commands issued by a user may be used by the head unit to instruct the head unit to turn to the Bluetooth audio system.</p>

Claim	Support
	 <p>The screenshot shows a manual page titled "VOICE COMMAND SYSTEM OPERATION". A red box highlights the "VOICE COMMAND EXAMPLE SEARCH FOR A TRACK USING ARTIST NAME OR ALBUM NAME" section, which includes steps 1, 2, and 3, and a confirmation screen image. Another red box highlights the "INFORMATION" section, which lists conditions for music recognition technology and playback.</p> <p>334</p> <p>RX450K/350_Nav_U</p>
	<p>See, e.g., Ex. B (2015 Lexus RX350 Navigation System Owner's Manual) at 334.³</p>
<p>56. The system of</p>	<p>Each of the accused Lexus automobiles includes a device presence signal that "maintain[s] the car audio/video system in a</p>

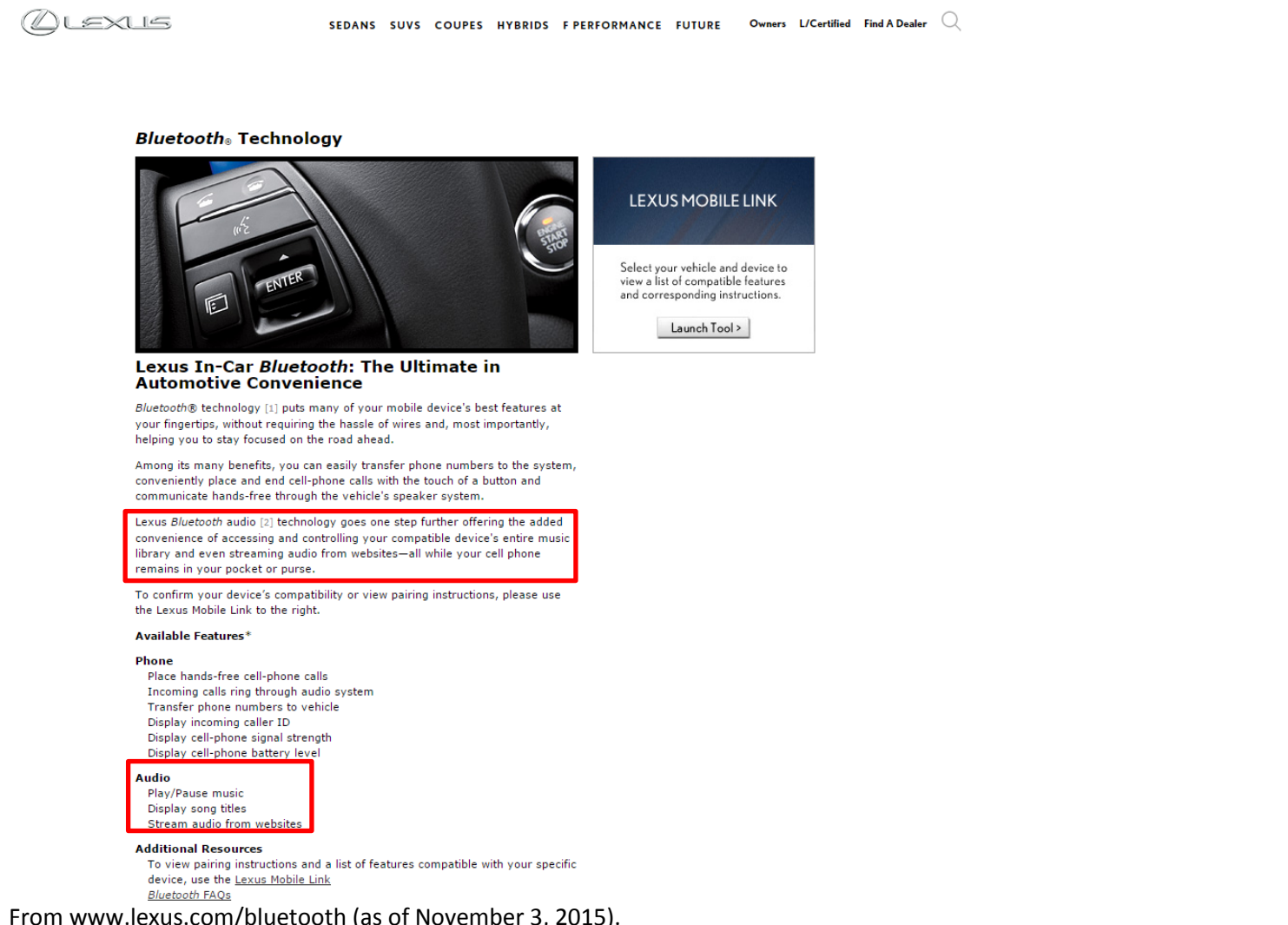
³ Blitzsafe has produced Ex. B, 2015 Lexus RX350 Navigation System Owner's Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0002248-2699. All pin-cites are to manual pages.

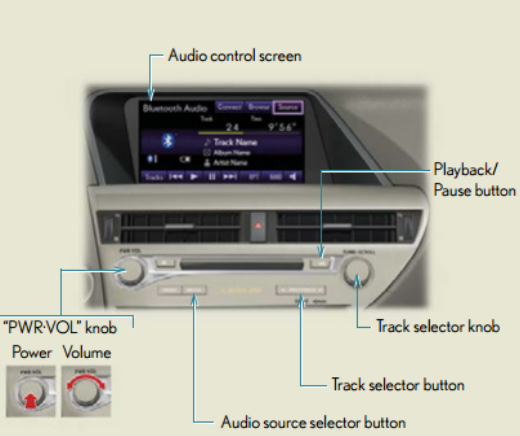
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>claim 49, wherein said integration subsystem generates a device presence signal and transmits the device presence signal to the car audio/video system to maintain the car audio/video system in a state responsive to the portable device.</p>	<p>state responsive to the portable device.” Specifically, when a portable device is paired via Bluetooth, a Bluetooth graphic appears indicating that a compatible device is connected and recognized. Once a compatible portable device is connected and recognized, the integration subsystem maintains the car audio/video system in a state responsive to processed data and audio signals from the portable device.</p> <p>The device presence signal is generated when a component of the integration subsystem (and potentially other microcontrollers on one or more circuit boards) executes pre-programmed code stored in onboard flash and/or other memory modules, and/or within firmware elsewhere in the interface in response to its receipt from the first wireless interface of a signal indicating that a portable device has established a connection via Bluetooth.</p> <p>The device presence signal can be identified by examining the source code in the integration subsystem of the accused Lexus automobiles.</p>

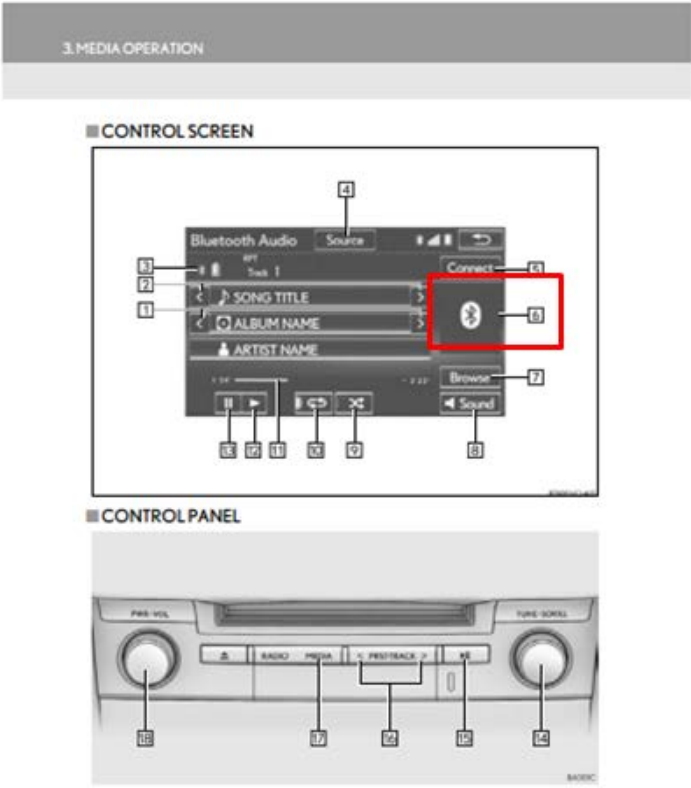
Claim	Support						
	<div> <p>3-3. Using the Lexus Display Audio system</p> <p>Status display</p> <p>You can check such indicators as signal strength and battery charge on the screen.</p>  <p>1 Connection status 2 Battery charge</p> <table border="1"> <thead> <tr> <th>Indicators</th> <th>Conditions</th> </tr> </thead> <tbody> <tr> <td>Connection status</td> <td>Good ←→ Not connected</td> </tr> <tr> <td>Battery charge</td> <td>Full ←→ Empty</td> </tr> </tbody> </table> <p>416</p> </div> <p><i>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 416.</i></p>	Indicators	Conditions	Connection status	Good ←→ Not connected	Battery charge	Full ←→ Empty
Indicators	Conditions						
Connection status	Good ←→ Not connected						
Battery charge	Full ←→ Empty						

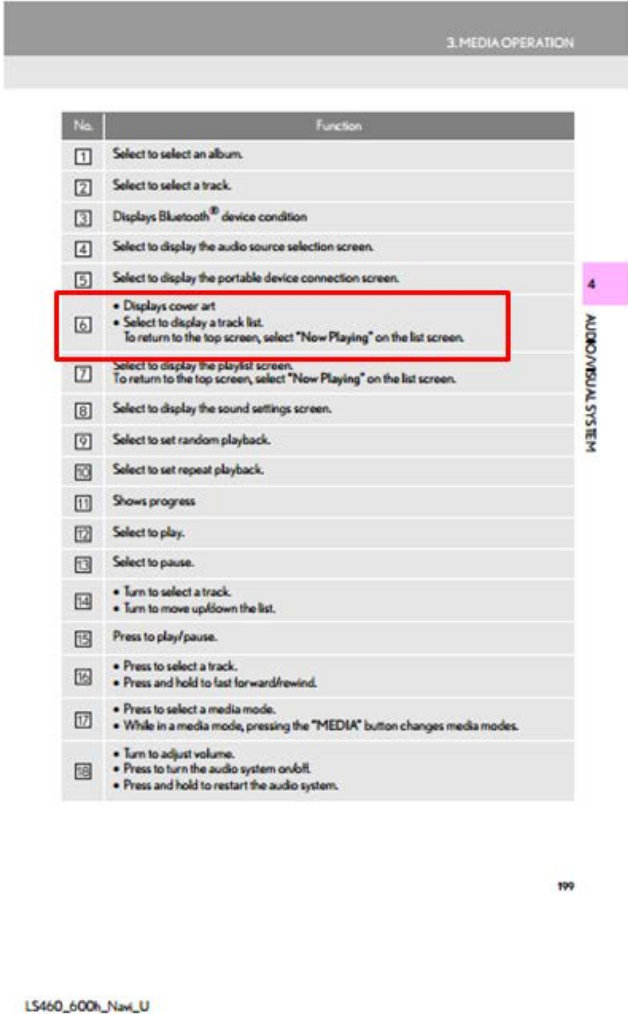
Claim	Support
<p>57. The system of claim 49, wherein said integration subsystem instructs said portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	<p>See claim 55 support.</p>
<p>62. The system of claim 49, wherein the portable device comprises a portable digital media player.</p>	<p>Portable devices capable of being connected to car audio/video systems of the accused Lexus automobiles include Bluetooth compatible smart phones and other smart devices, such as iPhones, iPads, iPods, and Android devices. When storing, streaming and playing media (such as audio and/or video), these smart devices constitute digital media players. These players are capable of at least playing MP3 song files and streaming audio, such as via applications and online websites (e.g., Pandora, iTunes streaming, and Apple Music).</p>

Claim	Support
	 <p>Bluetooth® Technology</p> <p>Lexus In-Car Bluetooth: The Ultimate in Automotive Convenience</p> <p>Bluetooth® technology [1] puts many of your mobile device's best features at your fingertips, without requiring the hassle of wires and, most importantly, helping you to stay focused on the road ahead.</p> <p>Among its many benefits, you can easily transfer phone numbers to the system, conveniently place and end cell-phone calls with the touch of a button and communicate hands-free through the vehicle's speaker system.</p> <p>Lexus Bluetooth audio [2] technology goes one step further offering the added convenience of accessing and controlling your compatible device's entire music library and even streaming audio from websites—all while your cell phone remains in your pocket or purse.</p> <p>To confirm your device's compatibility or view pairing instructions, please use the Lexus Mobile Link to the right.</p> <p>Available Features*</p> <p>Phone</p> <ul style="list-style-type: none"> Place hands-free cell-phone calls Incoming calls ring through audio system Transfer phone numbers to vehicle Display incoming caller ID Display cell-phone signal strength Display cell-phone battery level <p>Audio</p> <ul style="list-style-type: none"> Play/Pause music Display song titles Stream audio from websites <p>Additional Resources</p> <p>To view pairing instructions and a list of features compatible with your specific device, use the Lexus Mobile Link Bluetooth FAQs</p> <p>From www.lexus.com/bluetooth (as of November 3, 2015).</p>

Claim	Support
	<div style="border: 1px solid gray; padding: 10px;"> <p>3-3. Using the Lexus Display Audio system Listening to Bluetooth® audio</p> <div style="border: 2px solid red; padding: 5px;"> <p>The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication. This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.</p> <p>Press the "MEDIA" button or the "AUDIO" button on the Lexus Display Audio controller and then select "Bluetooth".</p> <p>*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.</p> </div> <p>■ Control panel</p> <div>  <p>Audio control screen</p> <p>Playback/Pause button</p> <p>"PWR-VOL" knob Power Volume</p> <p>Track selector knob</p> <p>Track selector button</p> <p>Audio source selector button</p> </div> <p>414</p> </div> <p>See, e.g., Ex. A (2015 Lexus RX350 Owner's Manual) at 414.</p>

Claim	Support
<p>63. The system of claim 62, wherein the portable digital media player comprises a video device, a portable media center, a portable media player, an MP3 player, an MP4 player, a WMV player, an Apple iPod, or an Apple video iPod.</p>	<p>See claim 62 support.</p>
<p>64. The system of claim 49, wherein the portable device comprises a cellular telephone.</p>	<p>See claim 62 support.</p>
<p>66. The system of claim 49, wherein said integration subsystem obtains, using said wireless communication link, information about a video file stored on the portable device</p>	<p>The integration subsystem of the accused Lexus automobiles obtains, via the wireless communication link between the first and second wireless interfaces (i.e., a Bluetooth interface of the car audio/video system and one or more others in communication with and part of the portable device), information about a video file (i.e., cover art associated with audio files) stored on the portable device. Specifically, when a user selects an audio file to play (and in so doing also selects the associated cover art file) using controls of the car audio/video system, the integration subsystem receives cover art information from the portable device. The integration subsystem then transmits the cover art file to the car audio/video system for display on the display of the car audio/video system.</p>

Claim	Support
<p>for subsequent display of the information on a display of the car audio/video system, instructs the portable device to play the video file in response to a user selecting the video file using controls of the car audio/video system, and receives video generated by the portable device over said wireless communication link for playing on the car audio/video system.</p>	 <p>The support consists of two images. The top image is a screenshot of a car infotainment system's 'CONTROL SCREEN' showing a 'Bluetooth Audio' interface. A red box highlights the Bluetooth icon, which is labeled with reference numeral 13. Other elements on the screen include 'Source', 'Connect', 'Song Title', 'Album Name', 'Artist Name', and various playback controls. The bottom image is a photograph of the physical 'CONTROL PANEL' of the car's audio system, with reference numerals 15, 17, 18, 19, and 20 pointing to specific physical buttons and knobs.</p> <p>198</p> <p>LS460_600h_Naw_U</p>

Claim	Support																																						
	 <p>3. MEDIA OPERATION</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Select to select an album.</td> </tr> <tr> <td>2</td> <td>Select to select a track.</td> </tr> <tr> <td>3</td> <td>Displays Bluetooth® device condition</td> </tr> <tr> <td>4</td> <td>Select to display the audio source selection screen.</td> </tr> <tr> <td>5</td> <td>Select to display the portable device connection screen.</td> </tr> <tr> <td>6</td> <td> <ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. </td> </tr> <tr> <td>7</td> <td>Select to display the playlist screen. To return to the top screen, select "Now Playing" on the list screen.</td> </tr> <tr> <td>8</td> <td>Select to display the sound settings screen.</td> </tr> <tr> <td>9</td> <td>Select to set random playback.</td> </tr> <tr> <td>10</td> <td>Select to set repeat playback.</td> </tr> <tr> <td>11</td> <td>Shows progress</td> </tr> <tr> <td>12</td> <td>Select to play.</td> </tr> <tr> <td>13</td> <td>Select to pause.</td> </tr> <tr> <td>14</td> <td> <ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. </td> </tr> <tr> <td>15</td> <td>Press to play/pause.</td> </tr> <tr> <td>16</td> <td> <ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. </td> </tr> <tr> <td>17</td> <td> <ul style="list-style-type: none"> • Press to select a media mode. • While in a media mode, pressing the "MEDIA" button changes media modes. </td> </tr> <tr> <td>18</td> <td> <ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the audio system. </td> </tr> </tbody> </table> <p>199</p> <p>LS460_600h_Navi_U</p> <p>See, e.g., Ex. D (2015 Lexus LS460 Navigation System Manual) at 198-99.⁴</p>	No.	Function	1	Select to select an album.	2	Select to select a track.	3	Displays Bluetooth® device condition	4	Select to display the audio source selection screen.	5	Select to display the portable device connection screen.	6	<ul style="list-style-type: none"> • Displays cover art • Select to display a track list. To return to the top screen, select "Now Playing" on the list screen. 	7	Select to display the playlist screen. To return to the top screen, select "Now Playing" on the list screen.	8	Select to display the sound settings screen.	9	Select to set random playback.	10	Select to set repeat playback.	11	Shows progress	12	Select to play.	13	Select to pause.	14	<ul style="list-style-type: none"> • Turn to select a track. • Turn to move up/down the list. 	15	Press to play/pause.	16	<ul style="list-style-type: none"> • Press to select a track. • Press and hold to fast forward/rewind. 	17	<ul style="list-style-type: none"> • Press to select a media mode. • While in a media mode, pressing the "MEDIA" button changes media modes. 	18	<ul style="list-style-type: none"> • Turn to adjust volume. • Press to turn the audio system on/off. • Press and hold to restart the audio system.
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⁴ Blitzsafe has produced Ex. D, 2015 Lexus LS460 Navigation System Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-TOY-0001770-2231. All pin-cites are to manual pages.

Claim	Support
<p>68. The system of claim 66, wherein the video file comprises a picture stored on the portable device.</p>	<p>See claim 66 support.</p>
<p>70. The system of claim 66, wherein said integration subsystem receives video generated by the portable device in a first format incompatible with the car audio/video system, processes the video into processed video in a second format compatible with the car audio/video system, and transmits the</p>	<p>See claim 54 support.</p>

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>processed video to the car audio/video system for subsequent display of the processed video on a display of the car audio/video system.</p>	
<p>71. The system of claim 49, wherein the audio file comprises a song stored on the portable device.</p>	<p>See claim 49 support.</p>
<p>[73P]. A multimedia device integration system, comprising:</p>	<p>See preamble [49P] support.</p>
<p>[73A]. an integration subsystem in communication with a car audio/video system; and</p>	<p>See element [49A] support.</p>
<p>[73B] a first</p>	<p>See element [49B] support.</p>

Claim	Support
<p>wireless interface in communication with said integration subsystem, said first wireless interface establishing a wireless communication link with a second wireless interface in communication with a portable device external to the car audio/video system,</p>	
<p>[73C] wherein said integration subsystem obtains, using said wireless communication link, information about an audio file received by the portable device, transmits the information to the car</p>	<p>See element [49C] support.</p> <p>The audio file may be “received” by the portable device from online streaming services, such as Pandora, Spotify, iTunes, or Apple Music. Audio files (such as MP3 files) stored on the portable device may also be “received” from other sources, such as download websites or the user himself/herself via download.</p>

Claim	Support
audio/video system for subsequent display of the information on a display of the car audio/video system,	
[73D] instructs the portable device to play the audio file in response to a user selecting the audio file using controls of the car audio/video system, and receives audio generated by the portable device over said wireless communication link for playing on the car audio/video system.	See element [49D] support
74. The system of claim 73, wherein said integration subsystem is positioned within	See claim 50 support.

Claim	Support
the car audio/video system.	
75. The system of claim 74, wherein said first wireless interface is positioned within the car audio/video system.	See claim 51 support.
76. The system of claim 75, wherein said second wireless interface is positioned within the portable device.	See claim 52 support.
77. The system of claim 73, wherein said integration subsystem receives a control command issued at the car audio/video system in a format incompatible with the portable	See claim 53 support.

Claim	Support
<p>device, processes the control command into a formatted command compatible with the portable device, and dispatches the processed control command to the portable device for execution thereby.</p>	
<p>78. The system of claim 73, wherein said integration subsystem receives data generated by the portable device in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video</p>	<p>See claim 54 support.</p>

Claim	Support
<p>system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.</p>	
<p>79. The system of claim 73, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by a user.</p>	<p>See claim 55 support.</p>
<p>80. The system of claim 79, wherein said integration subsystem instructs said</p>	<p>See claim 55 support.</p>

Claim	Support
<p>portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	
<p>94. The system of claim 73, wherein said integration subsystem obtains, over said wireless communication link, information about a video file received by the portable device for subsequent display of the information on a display of the car audio/video system, instructs the portable device to play the video file in response to a user selecting the video file using controls of the</p>	<p>See claim 66 support.</p>

Claim	Support
car audio/video system, and receives video generated by the portable device over said wireless communication link for playing on the car audio/video system.	
95. The system of claim 73, wherein the audio file comprises a song stored on the portable device.	See claim 71 support.
[97P] A multimedia device integration system, comprising:	See preamble [49A] support.
[97A] first and second wireless interfaces establishing a wireless communication link between a car audio/video	See element [49B] support.

Claim	Support
system and a portable device external to the car audio/video system; and	
[97B] an integration subsystem in communication with said wireless communication link,	<i>See element [49A] support.</i>
[97C] wherein said integration subsystem channels audio generated by the portable device to the car audio/video system using the wireless communication link for subsequent playing of the audio on the car audio/video system, the audio corresponding to an audio file played by the portable device,	<i>See element [49C] and [49D] support.</i>

Claim	Support
and	
<p>[97D] wherein said integration subsystem receives a control command issued by a user through one or more controls of the car audio/video system in a format incompatible with the portable device, processes the control command into a formatted command compatible with the portable device, and dispatches the formatted command to the portable device for execution thereby.</p>	<p>See claim 53 support.</p>
<p>99. The system of claim 97, wherein said integration subsystem is</p>	<p>See claim 50 support.</p>

Claim	Support
positioned within the car audio/video system.	
100. The system of claim 97, where the audio file is stored on the portable device.	See element [49C] support.
101. The system of claim 97, wherein the audio file is received by the portable device.	See element [73C] support.
102. The system of claim 97, wherein said integration subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by the user.	See claims 55 and 57 support.

Claim	Support
<p>103. The system of claim 102, wherein said integration subsystem instructs said portable device to play a desired file in response to a spoken command processed by the voice recognition subsystem.</p>	<p>See claims 55 and 57 support.</p>
<p>106. The system of claim 97, wherein said integration subsystem generates a device presence signal and transmits the device presence signal to the car audio/video system to maintain the car audio/video system in a state responsive to the</p>	<p>See claim 56 support.</p>

Claim	Support
portable device.	
109. The system of claim 97, wherein the portable device comprises a portable digital media player.	See claim 62 support.
110. The system of claim 109, wherein the portable digital media player comprises a video device, a portable media center, a portable media player, an MP3 player, an MP4 player, a WMV player, an Apple iPod, or an Apple video iPod.	See claim 63 support.
111. The system of claim 97, wherein the portable device comprises a cellular telephone.	See claim 64 support.

Claim	Support
<p>113. The system of claim 97, wherein said integration subsystem channels video generated by the portable device to the car audio/video system over the wireless communication link for subsequent playing of the audio on the car audio/video system, the video corresponding to a video file played by the portable device.</p>	<p>See claim 66 support.</p>
<p>115. The system of claim 113, wherein the video file comprises a picture stored on the portable device.</p>	<p>See claim 68 support.</p>

Claim	Support
120. A multimedia device integration system, comprising:	See preamble [97P] support.
first and second wireless interfaces establishing a wireless communication link between a car audio/video system and a portable device external to the car audio/video system; and	See element [97A] support.
an integration subsystem in communication with said wireless communication link,	See element [97B] support
wherein said integration subsystem instructs the portable device to play an audio file in response to	See element [97C] support.

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>a user selecting the audio file using controls of the car audio/video system, wherein said integration subsystem channels audio generated by the portable device to the car audio/video system using the wireless communication link for subsequent playing of the audio on the car audio/video system, the audio corresponding to the audio file played by the portable device, and</p>	
<p>wherein said integration subsystem receives data generated by the portable device</p>	<p>See element [97D] support.</p>

Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Lexus Automobiles

Claim	Support
<p>in a format incompatible with the car audio/video system, processes the data into formatted data compatible with the car audio/video system, and transmits the processed data to the car audio/video system for subsequent display of the processed data on a display of the car audio/video system.</p>	