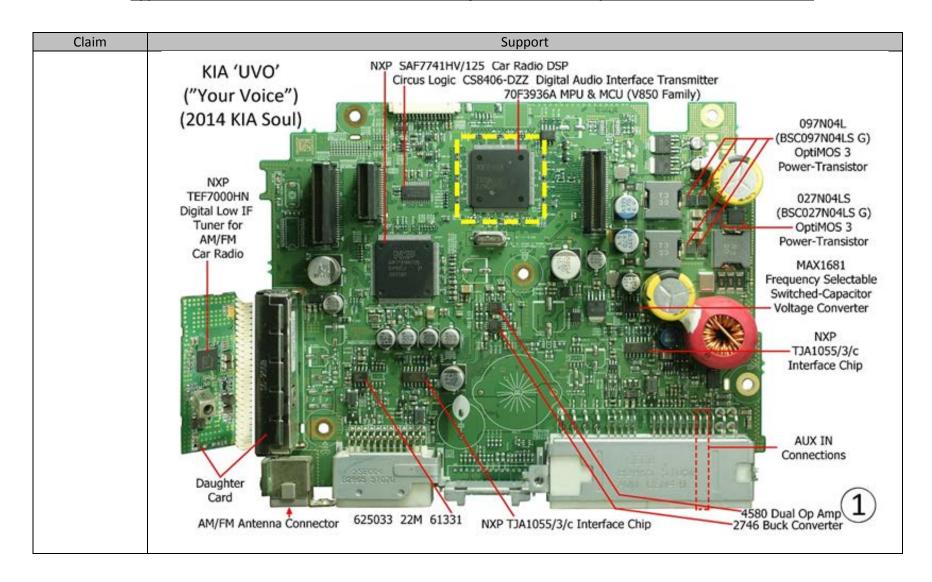
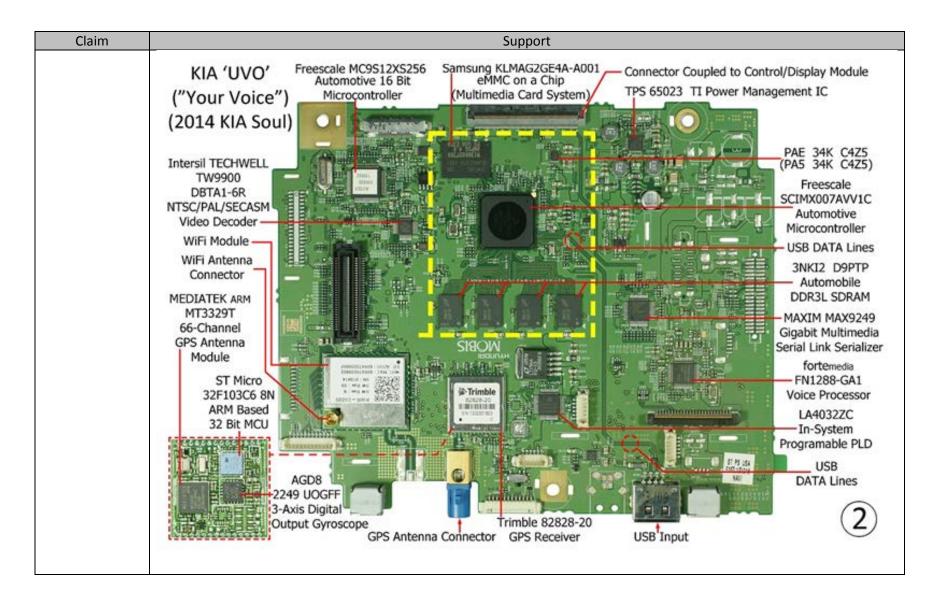
In these Infringement Contentions, Blitzsafe contends that at least the following claims of U.S. Patent No. 8,155,342 ("'342 patent") identified below are infringed by the infotainment systems in accused Kia automobiles. Blitzsafe does not concede that any claims of the '342 patent that are not listed below are not infringed by the infotainment systems in accused Kia 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 Kia'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 Kia, 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	Each accused Kia automobile includes a device integration system that supports integration of audio/video devices, such as
multimedia	freely lying smartphones and other smart devices connected via Bluetooth, as well as MP3 players (e.g., iPods, iPhones and
device	Zune devices playing MP3 files). Accused Kia automobiles also permit audio streaming over Bluetooth from smartphone
integration	apps, such as Pandora, iTunes streaming, and Apple Music.
system,	
comprising:	
[49A] an	Each device integration system of an accused Kia automobile includes, among other things, an integration subsystem for
integration	connecting the car audio/video system to portable devices via a Bluetooth connection. The integration subsystem, which
subsystem in	comprises at least the software and hardware shown in the yellow dashed boxes below, including at least a Freescale
communication	microcontroller and memory modules, is in communication with the car audio/video system. The integration subsystem
with a car	channels audio signals to the car stereo from a portable device (such as an iPod, iPhone, Zune device or other smart device)
audio/video	external to the car audio/video system.
system; and	

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



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



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

Claim		Support
Claiiii	Features of your vehicle	
	 Technology Audio Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. ※ Audio may not automatically start playing in some mobile phones. 	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the © TUNE knob to play and pause the current song. BTAUdio © DIMP3 ** The title / artist info may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press Or DIMP3 ** The previous song / next song / play / pause functions may not be supported in some mobile phones.
	4 178	
	See, e.g., Ex. A (2014 Kia Soul User's N	Manual) at 4:178. ¹

¹ Blitzsafe has produced Ex. A, 2014 Kia Soul User's Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-HK-0000880 – 1379. All pin-cites are to manual pages.

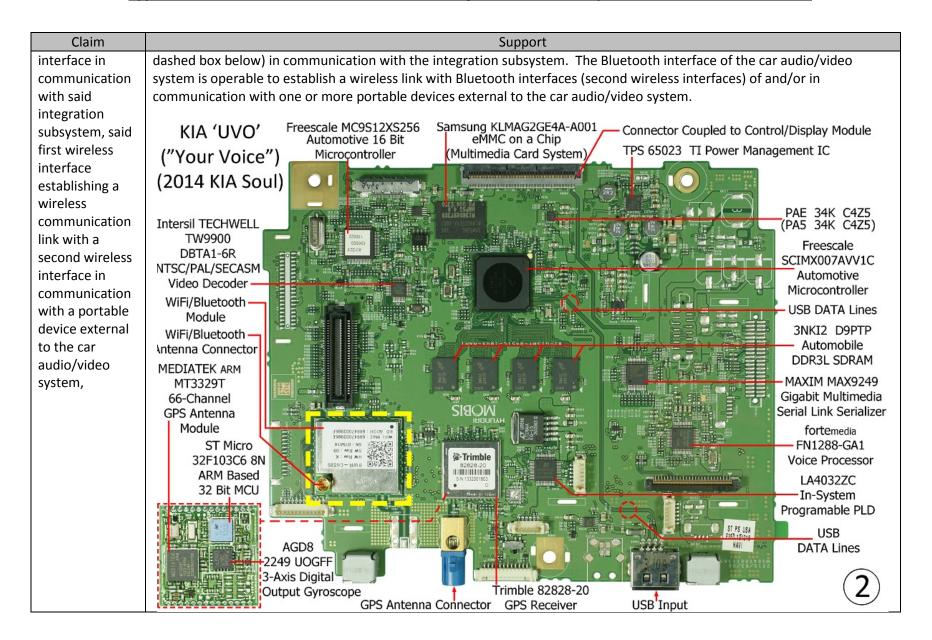
Claim		Support	
	BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth® wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth® wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth® wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth® wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio 1	Oisplays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. 7 Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. 8 Bluetooth® wireless technology connection state Becomes displayed when a Bluetooth® wireless technology enabled phone has been connected with the car system.

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

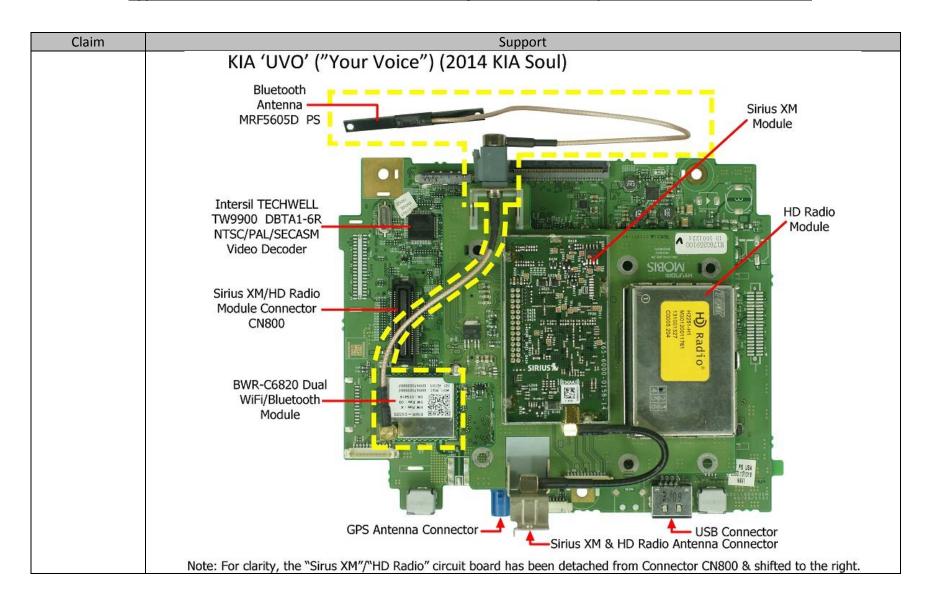
	Listening to music from your Bluetooth* wireless technology enabled device 1. Pair your Bluetooth* wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth* wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel to turn on BT audio mode. 3. When streaming music from your Bluetooth* wireless technology enabled device and you wish to pause, press the DID button next on the screen. Press the DID button to restart music. Note • While music saved in the Bluetooth* wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth* wireless technology enabled devices. 2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO See, e.g., video (Stream Music from https://www.youtube.com/watch?	n Your Smart Phone - 2014 Kia Uv	REW/FF a song 1. Press and hold the keys (over 0.8 seconds) on the control panel or the keys (over 0.8 seconds) on the steering wheel controller. 2. The track will rewind or fast-forward at a rate 20 times faster than normal while the key is being held. 3. Release the key to play from the current position. Note • The play/pause, song selection and REW/FF features are supported only in handset devices with AVRCP Ver. 1.3 or higher. If play control features are not working, first check the AVRCP version of your Bluetooth wireless technology enabled device. • When such operations are not supported, use the handset device to perform these functions.
[49B] a first wireless	· ·		udes a first wireless interface (a Bluetooth interface in uitry, including at least the circuitry shown in the yellow

² Blitzsafe has produced Ex. B, 2015 Kia Soul UVO Manual, simultaneously with these Infringement Contentions as a document bearing production numbers BS-HK-0000739 – 875. All pin-cites are to manual pages.

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



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



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

Claim								Suppor	rt
	iOS: Su	ıppor	ted Bl	uetooth	profiles				
		iOS. You	can lear		ultiple Bluetoo nces in Bluetoo				
	The followin	g table lists	supported	Bluetooth profi	les by device for tl	he latest ver	sion of iOS.		
	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	✓	1	✓	✓	✓	✓	✓	
	iPhone 3G	· /	1	1	✓	✓	✓	-	
	iPhone 3G	1	1	1	1	1	-	-	
	Original iPhone	✓	✓	-	-	-	-	-	
	iPad 2 and later	✓	-	✓	1	1	✓	-	
	iPad (1st generation	-	-	1	1	1	1	-	
	iPod touch (4th generation and later)	1	-	/	1	1	1	-	
	iPod touch (2nd and 3rd generation		-	/	/	1	1	-	

³ Blitzsafe has produced Ex. C, iOS: Supported Bluetooth profiles, simultaneously with these Infringement Contentions as a document bearing production numbers BS-HK-0000001 – 3. All pin-cites are to manual pages.

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

Claim	Support
	Android platform)
	See also Ex. D (Kia Bluetooth Compatibility List). 4
	• Check call history and making call ① Briefly press (under 0.8 seconds) the key on the steering remote controller. ② The call history list will be displayed on the screen. ② Press the key again to consults a second bluetooth wireless Technology Pairing a Bluetooth wireless Technology
	 ③ Press the key again to connect a call to the selected number. • Redialing the most recently called number ⑤ Press and hold (over 0.8 seconds) the key on the steering remote controller. ② The most recently called number is redialed. What is Bluetooth® Wireless Technology Pairing? Pairing refers to the process of synchronizing your Bluetooth® Wireless Technology phone or device with the car audio system for connection. Pairing is necessary to connect and use the Bluetooth® Wireless Technology feature. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Kia is under license. Other trademarks and trade names are those of their respective owners. A Bluetooth® Wireless Technology
	4 180

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⁴ Blitzsafe has produced Ex. D, Kia Bluetooth Compatibility List, simultaneously with these Infringement Contentions as a document bearing production numbers BS-HK-0000876 – 879. All pin-cites are to manual pages.

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

Claim		Support	
	Pairing PHONE Key / Key on the Steering Remote Controller When No Devices have been Paired 1. Press the PHONE key or the key on the steering remote controller.	2. Select [OK] button to enter the Pair Phone screen. Setup 12:00 Phone Pair Phone ① Car Name: KIA MOTORS ② Passkey: 0000 ① Cancel	[Non SSP supported device] (SSP: Secure Simple Pairing) 4.After a few moments, a screen is displayed where the passkey is entered. Enter the passkey "0000" to pair your <i>Bluetooth</i> ® Wireless Technology device with the car audio system.
	Turn Bluetooth ON from your device to search O OK	1)Car Name: Name of device as shown when searching from your Bluetooth® Wireless Technology device 2) Passkey: Passkey used to pair the device 3.From your Bluetooth® Wireless Technology device (i.e. Mobile Phone), search and select your car audio system.	[SSP supported device] 4. After a few moments, a screen is displayed 6 digits passkey. Check the passkey on your Bluetooth® Wireless Technology device and confirm. Setup 12:00 Phone Pair Phone Passkey: 365190
			5.Once pairing is complete, the following screen is displayed. 4 181

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

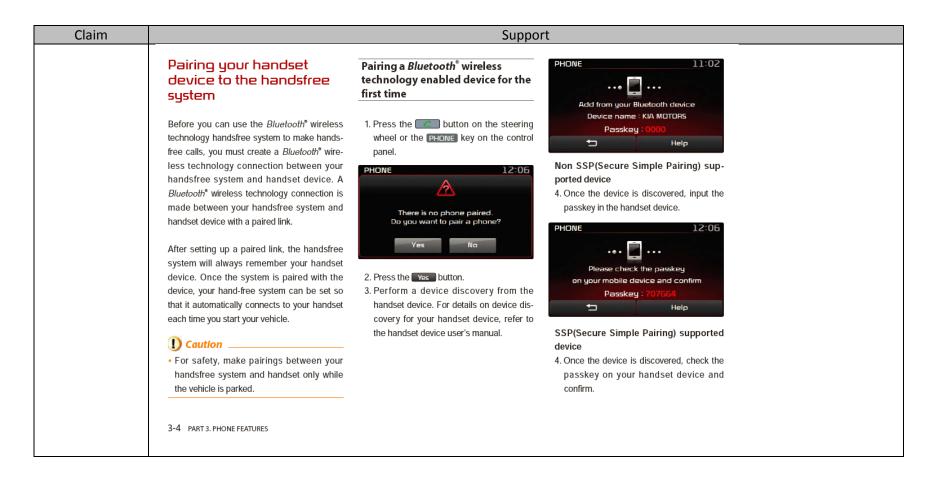
Claim	Support
	During the pairing process, make sure that all connection requests on the phone are accepted for phonebook download and to allow acceptance of all future connection requests. " and "Visit http://www.kia.com/us/#/bluetooth for additional information on pairing your Bluetooth-enabled mobile phone, and to view a phone compatibility list.
	For using Bluetooth Need to pair or connect Pair 2Conn 3Cancel
	• If Bluetooth® Wireless Technology devices are paired but none are currently connected, pressing the PHONE key or the key on the steering wheel displays the following screen. Select [Pair] button to pair a new device or select [Connect] to connect a previously paired device.
	4 182

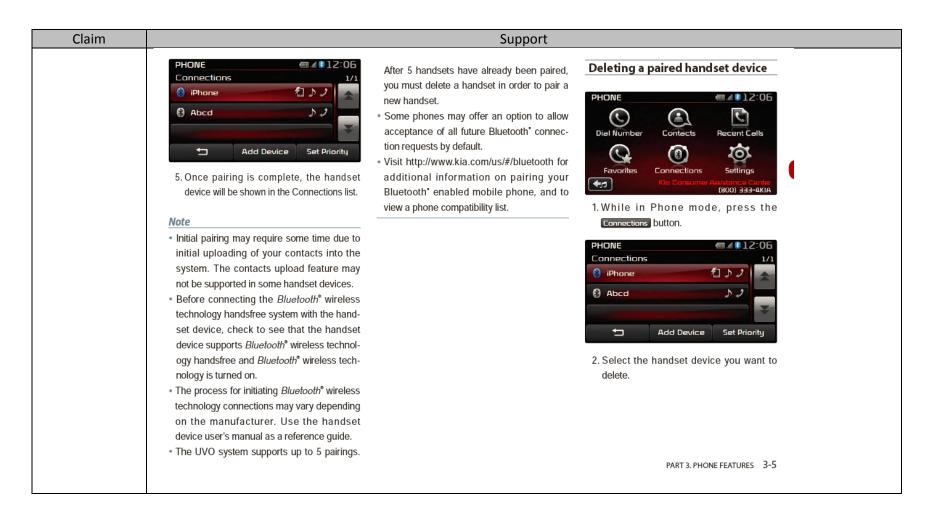
Claim		Support	
	Press the SETUP key ▶ Select [Phone] ▶ Select [Pair Phone] ▶ Select © TUNE knob Setup	* Bluetooth* Wireless Technology features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth* Wireless Technology device. - Outgoing/Incoming Handsfree calls - Operations during a call (Switch to Private, Switch to call waiting, MIC on/off) - Downloading Call History - Downloading Mobile Contacts - Bluetooth* Wireless Technology device auto connection - Bluetooth Audio Streaming - Up to five Bluetooth* Wireless Technology devices can be paired to the Car Handsfree system. - Only one Bluetooth* device can be connected at a time. - Only one Bluetooth* Wireless Technology device can be connected at a time. - Other devices cannot be paired while a Bluetooth* Wireless Technology device is connected.	 Only Bluetooth® Wireless Technology Handsfree and Bluetooth audio related features are supported. Bluetooth related operations are possible only within devices that support Handsfree or audio features, such as a Bluetooth® Wireless Technology mobile phone or a Bluetooth audio device. If a connected Bluetooth® Wireless Technology device becomes disconnected due to being out of communication range, turning the device OFF, or a Bluetooth® Wireless Technology communication error, corresponding Bluetooth® Wireless Technology devices are automatically searched and reconnected. If the system becomes unstable due to communication errors between the car Handsfree and the Bluetooth® Wireless Technology device, reset the device by turning off and back on again. Upon resetting Bluetooth® Wireless Technology device, the system will be restored.
			4 183

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

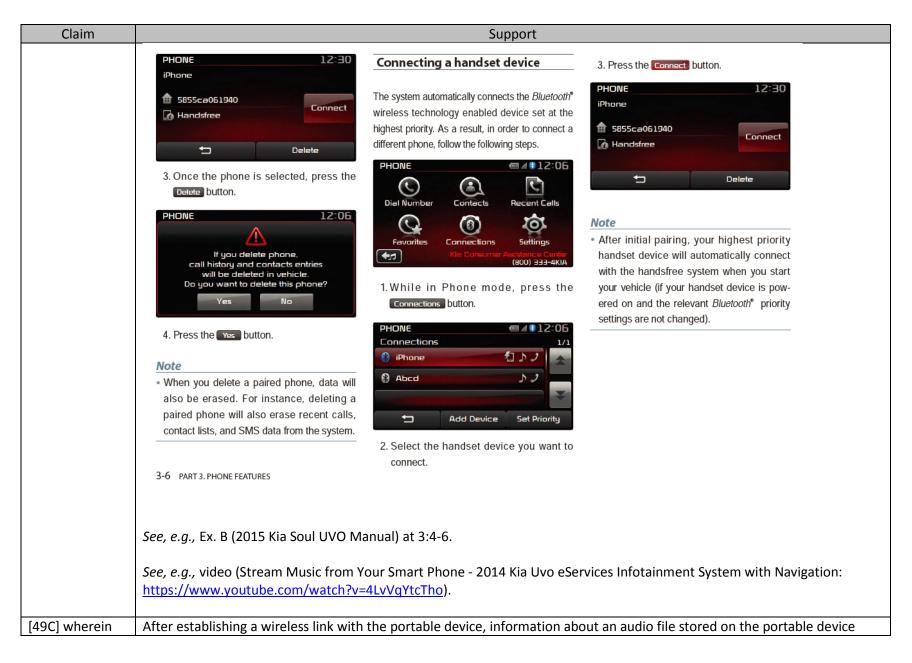
Claim		Support	
	After pairing is complete, a contacts download request is sent once to the mobile phone. Some mobile phones may require confirmation upon receiving a download request, ensure your mobile phone accepts the connection. Refer to your phones user's manual for additional information regarding phone pairing and connections. 4 184 See, e.g., Ex. A (2014 Kia Soul User's Manual Soul User's Ma	Press the SETUP key ► Select [Phone] ► Select [Phone List] Setup	From the paired phone list, select the device you want to connect and select [Connect]. Setup 12:00>List>Connect Phone Gran 2Priori 3Delete 4Return Setup 12:00>List>Connect Phone Bluetooth Phone Connection complete OK

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





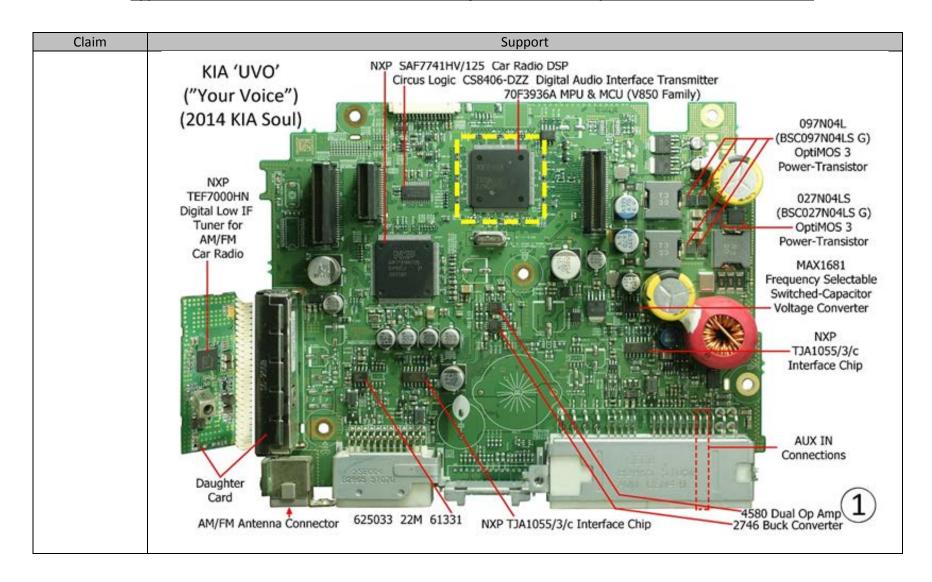
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles



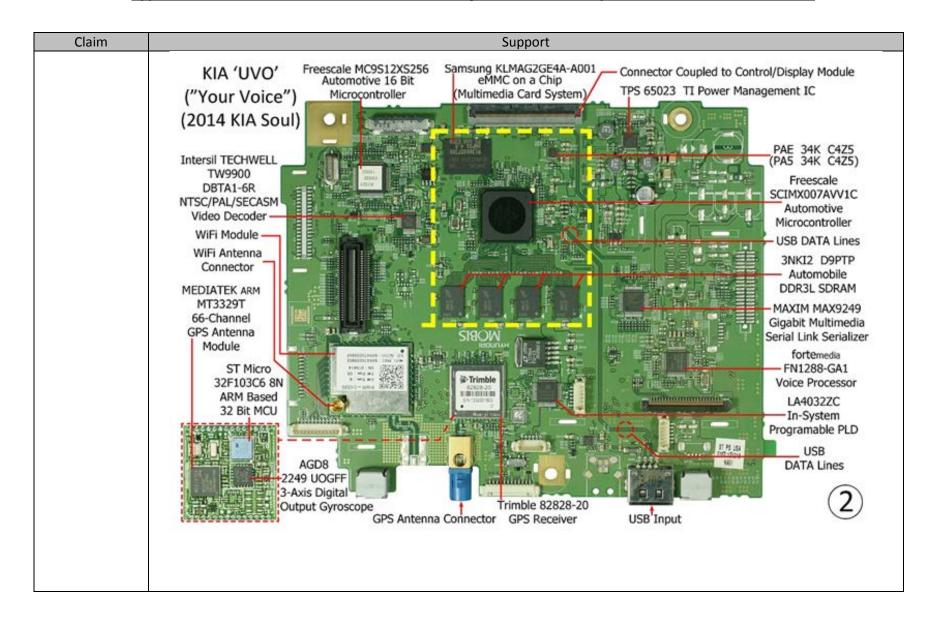
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

Claim	Support
said integration	(such as the audio itself, as well as song title information) is communicated wirelessly from the portable device to the
subsystem	integration subsystem of the car audio/video system via the first and second wireless interfaces (i.e., a Bluetooth interface
obtains, using	of the car audio/video system and another in communication with and part of the portable device). The integration
said wireless	subsystem then transmits this information to the car audio/video system for subsequent display of the information on a
communication	display of the car audio/video system.
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,	

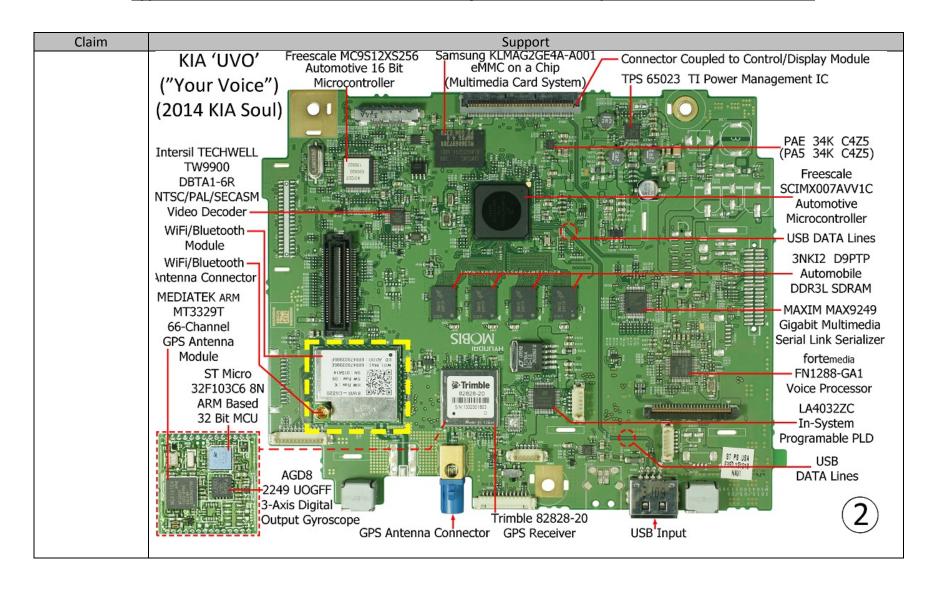
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles



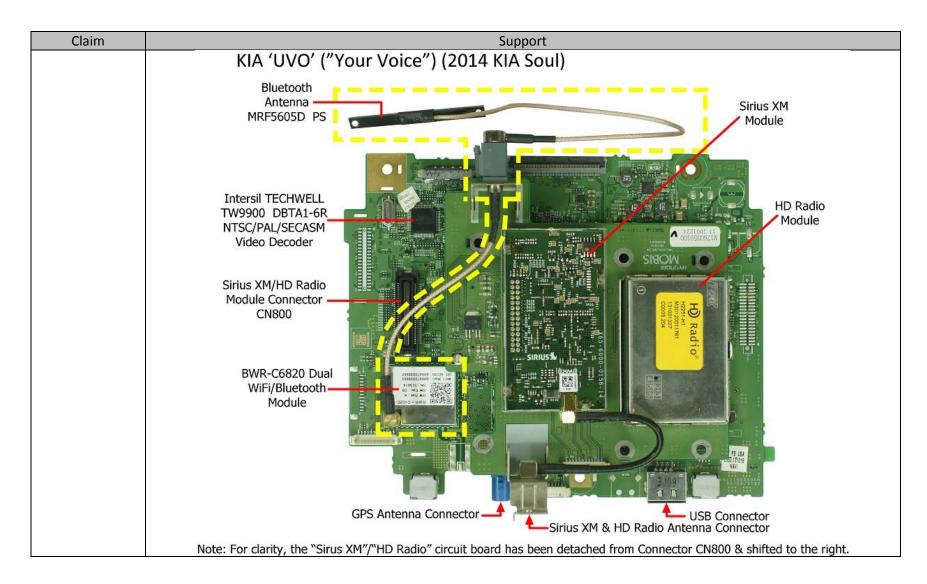
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles



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



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



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

Claim		Support	
	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. * Audio may not automatically start playing in some mobile phones.	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the TUNE knob to play and pause the current song. BTAUdio SOUSE AUX 12:00 • No Artist • MUSIC_OI.Mp3 ** The title / artist into may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press TRACK or TRACK to play previous or next song. ** The previous song / next song / play / pause functions may not be supported in some mobile phones. al) at 4:178.	

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

Claim	Support		
	BT Audio mode is a feature which allows you to stream music stored in your handset device via a <i>Bluetooth</i> * wireless technology connection. Music saved in the handset device can be played in the car through <i>Bluetooth</i> * wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If <i>Bluetooth</i> * wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the <i>Bluetooth</i> * wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio Sph-ws200 Sph-ws200 Sound Say You Love N Sound Soun	Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. Bluetooth wireless technology connection state Becomes displayed when a Bluetooth wireless technology enabled phone has been connected with the car system.

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

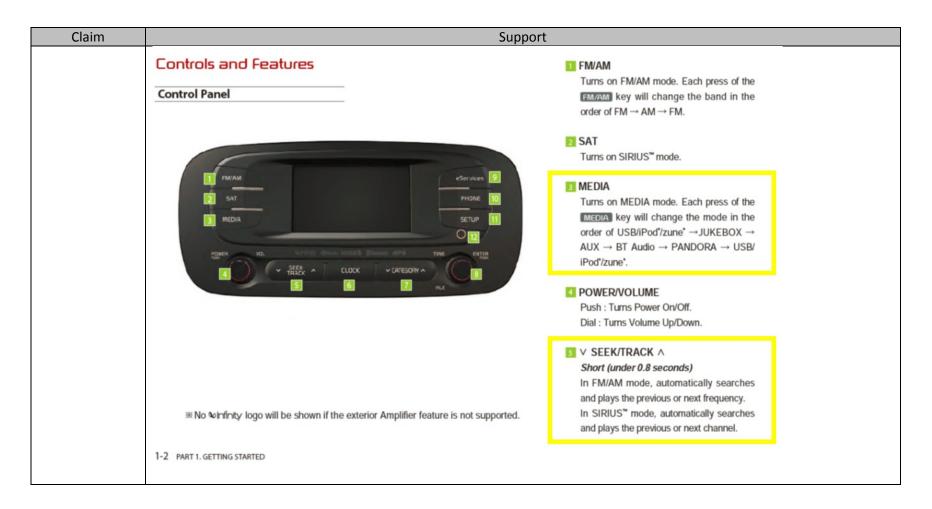
Claim	Support
	Listening to music from your Bluetooth* wireless technology enabled device 1. Pair your Bluetooth* wireless technology enabled device to the handsfree system. For more information on pairing your handset devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the Tall button for section of turn on BT audio mode. 3. When streaming music from your Bluetooth* wireless technology enabled devices and you wish to pause, press the Tall button for restart music. Note * While music saved in the Bluetooth* wireless technology enabled devices. * While music saved in the Bluetooth* wireless technology enabled devices. * While music saved in the Bluetooth* wireless technology enabled devices wireless technology enabled devices wireless technology enabled devices wireless technology enabled devices. * While music saved in the Bluetooth* wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth* wireless technology enabled devices. * While music saved in the Bluetooth* wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth* wireless technology enabled devices. * If music does not begin playing even after displaying the form the Bluetooth* wireless technology enabled device. * It music does not begin playing even after displaying the form the Bluetooth* wireless technology enabled device. * It music does not begin playing even after displaying the bluetooth* wireless technology enabled device. * It music does not begin playing even after displaying the bluetooth* wireless technology enabled device. * It music dienctly from the Bluetooth* wireless technology enabled device. * The play pause, song selection and REW/FF features are supported only in handset devices with AVRCP version of your Bluetooth* wireless technology enabled device. * Whil
	2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO Manual) at 2:27-28. See, e.g., video (Stream Music from Your Smart Phone - 2014 Kia Uvo eServices Infotainment System with Navigation: https://www.youtube.com/watch?v=4LvVqYtcTho).
[49D] said integration subsystem instructs the portable device	With respect to each device integration system of the accused Kia automobiles, a user can input commands via buttons and controls of the car audio/video system to (i) select a track; (ii) fast forward and reverse a track; and (iii) play and pause a track. When a user selects an audio file to play using buttons and/or controls of the car audio/video system, 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

Claim	Support		
to play the	and part of the portable device). The audio file is then played via the car's speakers.		
	the connection screen is displayed.		

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

Claim	Support		
	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. * Audio may not automatically start playing in some mobile phones.	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the © TUNE knob to play and pause the current song. BTAUdio © USB AUX 12:00 • No Artist ** MUSIC_01.mp3 ** The title / artist info may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press FEEK or FEEK to play previous or next song. ** The previous song / next song / play / pause functions may not be supported in some mobile phones.	
	4 178 See, e.g., Ex. A (2014 Kia Soul Owner's N	Manual) at 4:159, 178.	

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



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

Claim	Support		
Claim	BT AUDIO MODE BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth* wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth* wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth* wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth* wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio Seph-w9200 Mode Display Displays the current mode as BT Audio mode. Bluetooth wireless technology enabled device information Displays information about the Bluetooth wireless technology enabled device Song Title Displays the song title. Play/Pause Plays/pauses the song.	O Phone Battery charge status Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. Bluetooth® wireless technology connection state Becomes displayed when a Bluetooth® wireless technology enabled phone has been connected with the car system.
		Enters Sound Setup.	PART 2. AUDIO FEATURES 2-27

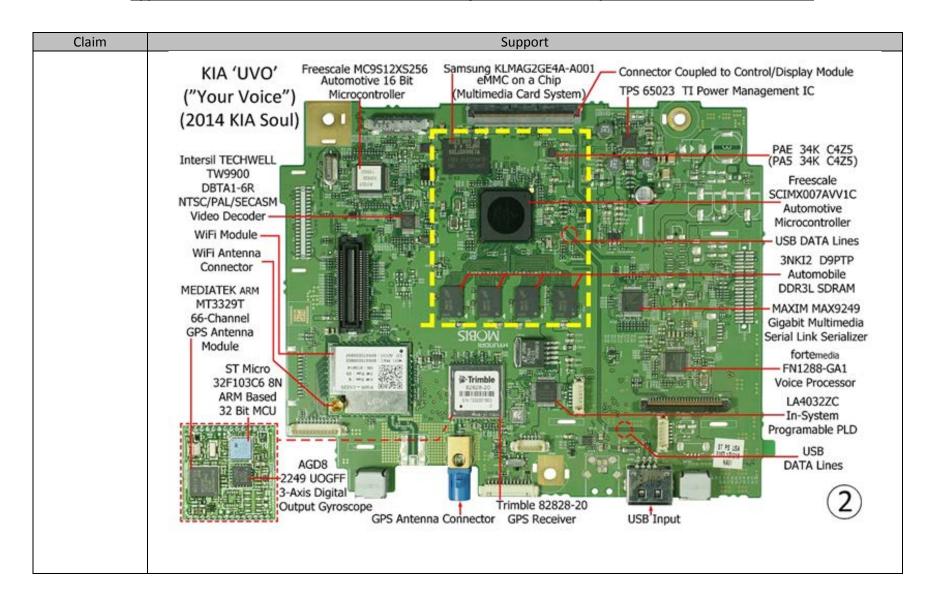
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

Claim	Support		
	Listening to music from your Bluetooth* wireless technology enabled device 1. Pair your Bluetooth* wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth* wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel	If music does not begin playing even after displaying the Phone music screen, try starting the music directly from the Bluetooth wireless technology enabled device. Selecting a song 1. Press the *** or *** keys on the control panel or the ** or ** keys on the steering wheel controller to play the	REW/FF a song 1. Press and hold the REE OF FEE OF OF FEE OF RESE OF FEE OF OF THE OF
	3. When streaming music from your Bluetooth* wireless technology enabled device and you wish to pause, press the button next on the screen. Press the button to restart music. Note * While music saved in the Bluetooth* wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth* wireless technology enabled devices.	desired song. 2. The previous or next song will begin playing. Note • File selection may not be supported in some Bluetooth* wireless technology enabled devices.	Note • The play/pause, song selection and REW/FF features are supported only in handset devices with AVRCP Ver. 1.3 or higher. If play control features are not working, first check the AVRCP version of your Bluetooth® wireless technology enabled device. • When such operations are not supported, use the handset device to perform these functions.
	2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO Ma See, e.g., video (Stream Music from Yohttps://www.youtube.com/watch?v=4	our Smart Phone - 2014 Kia Uvo eServ	vices Infotainment System with Navigation:
50. The system	Each car audio/video system of the ac	cused Kia automobiles includes the i	ntegration subsystem for connecting to external

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

Claim	Support		
of claim 49, wherein said integration subsystem is positioned within the car audio/video system.	portable devices (such as iPhones, Zune devices and other smart devices) 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 and artist information) to the car audio/video system by way of the first and second wireless interfaces and the integration subsystem. KIA 'UVO' ("Your Voice") ("Your Voice") (2014 KIA Soul) NXP SAF7741HV/125 Car Radio DSP TEF700HN Digital Low IF Turner for AW/FM Car Radio NXP TURNET AWAYISBI Frequency Selectable Switched-Capacitor Voltage Converter Voltage Converter Voltage Converter Voltage Converter NXP TJA1055/3/c Interface Chip TANS Dual Op Amp 1 AUX IN Connections		

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



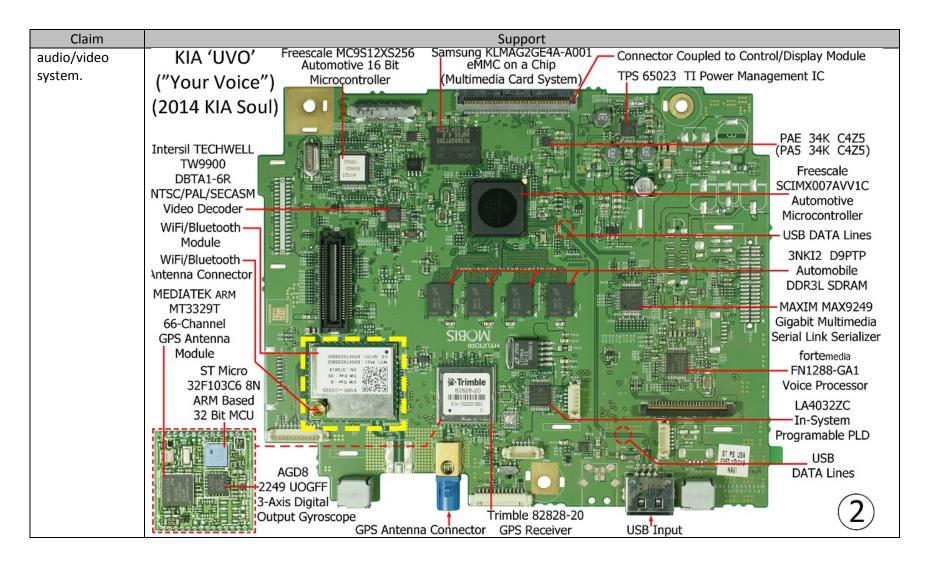
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

Claim	Support		
Claim	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX • Press the MEDIA has the mode in order of USB→AUX • Press the MEDIA has the mode in order of USB→AUX • Press the MEDIA has the mode in order of USB→AUX • Press the MEDIA has the mode in order of USB→AUX • Press the MEDIA has the mode in order of USB→AUX		
	→My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. ** Audio may not automatically start playing in some mobile phones. ** The title / artist info may not be supported in some mobile phone. When it is not supported, no		
	title/no artist will be displayed. • Previous / Next song Press SEEK or SEEK to play previous or next song. * The previous song / next song / play / pause functions may not be supported in some mobile phones.		
	4 178 See, e.g., Ex. A (2014 Kia Soul User's Manual) at 4:178.		

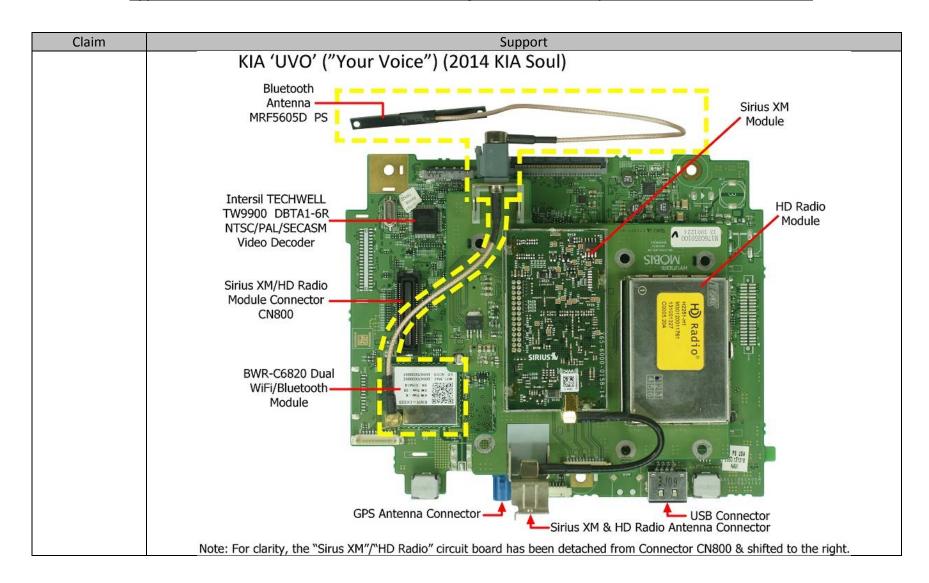
Claim	Support		
	BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth® wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth® wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth® wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth® wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio 1	Oisplays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. 7 Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. 8 Bluetooth® wireless technology connection state Becomes displayed when a Bluetooth® wireless technology enabled phone has been connected with the car system.

Claim		Support	
	Listening to music from your Bluetooth® wireless technology enabled device 1. Pair your Bluetooth® wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth® wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel to turn on BT audio mode. 3. When streaming music from your Bluetooth® wireless technology enabled device and you wish to pause, press the libutton next on the screen. Press the libutton to restart music. Note While music saved in the Bluetooth® wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth® wireless technology enabled devices. 2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO)	If music does not begin playing even after displaying the Phone music screen, try starting the music directly from the Bluetooth wireless technology enabled device. Selecting a song 1. Press the keys on the control panel or the or keys on the steering wheel controller to play the desired song. 2. The previous or next song will begin playing. Note File selection may not be supported in some Bluetooth wireless technology enabled devices.	REW/FF a song 1. Press and hold the keys (over 0.8 seconds) on the control panel or the keys (over 0.8 seconds) on the steering wheel controller. 2. The track will rewind or fast-forward at a rate 20 times faster than normal while the key is being held. 3. Release the key to play from the current position. Note • The play/pause, song selection and REW/FF features are supported only in handset devices with AVRCP Ver. 1.3 or higher. If play control features are not working, first check the AVRCP version of your Bluetooth* wireless technology enabled device. • When such operations are not supported, use the handset device to perform these functions.
51. The system of claim 50, wherein said first wireless interface is positioned within the car	The first wireless interface (i.e., the	e Bluetooth interface) is part of t	he car audio/video system.

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



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



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

Claim	Support
Claim	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the © TUNE knob to play and
	→ My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. # Audio may not automatically start playing in some mobile phones. # The title / artist info may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press Previous or next song. # The previous song / next song / play / pause functions may not be supported in some mobile phones.
	4 178 See, e.g., Ex. A (2014 Kia Soul User's Manual) at 4:178.

Claim	Support				
Claim	BT AUDIO MODE BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth® wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth® wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth® wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth® wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio 1	Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. Bluetooth® wireless technology connection state Becomes displayed when a Bluetooth® wireless technology enabled phone has been connected with the car system.		

Claim		Support
	displaying the Phone ing the music direct wireless technology 1. Pair your Bluetooth* wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth* wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel to turn on BT audio mode. 3. When streaming music from your Bluetooth* wireless technology enabled device and you wish to pause, press the MID button next on the screen. Press the MID button to restart music.	panel or the , keys (over 0.8 seconds) on the steering wheel controller. 2. The track will rewind or fast-forward at a rate 20 times faster than normal while the key is being held. 3. Release the key to play from the current position. **Note** The play/pause, song selection and REW/FF features are supported only in handset devices with AVRCP Ver. 1.3 or higher. If play control features are not working, first check the AVRCP version of your *Bluetooth** wireless technology enabled device. When such operations are not supported, use the handset device to perform these functions.
52. The system of claim 51, wherein said second wireless interface is positioned within the	Portable devices, such as iPhones, Zune devices, A interfaces.	ndroid devices and other smart, portable devices, include Bluetooth

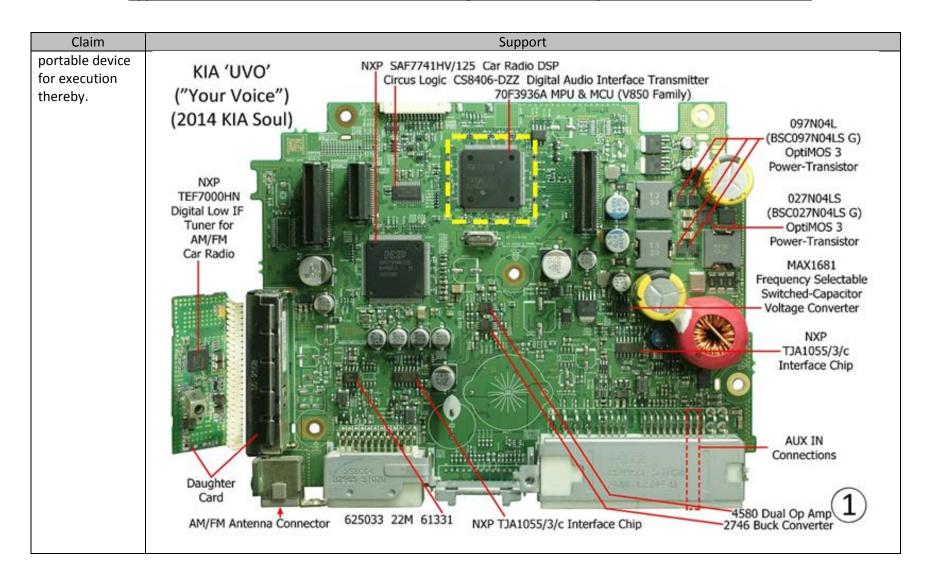
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

Claim							Suppor	t	
portable device.	iOS: Sup	pport	ed Bl	uetooth	profiles				
		OS. You			ultiple Bluetoo ices in Bluetoo				
	The following	table lists s	supported	Bluetooth profile	es by device for th	ne latest vers	sion of iOS.		
	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	✓	1	✓	✓	1	✓	✓	
	iPhone 3GS	1	1	1	✓	1	1	-	
	iPhone 3G	1	1	1	✓	1	-	-	
	Original iPhone	✓	1	-	-	-	-	-	
	iPad 2 and later	✓	-	1	1	1	1	-	
	iPad (1st generation)	-	-	1	1	1	1	-	
	iPod touch (4th generation and later)	✓	-	✓	/	✓	1	-	
	iPod touch (2nd and 3rd generation)	-	-	✓	~	✓	1	-	

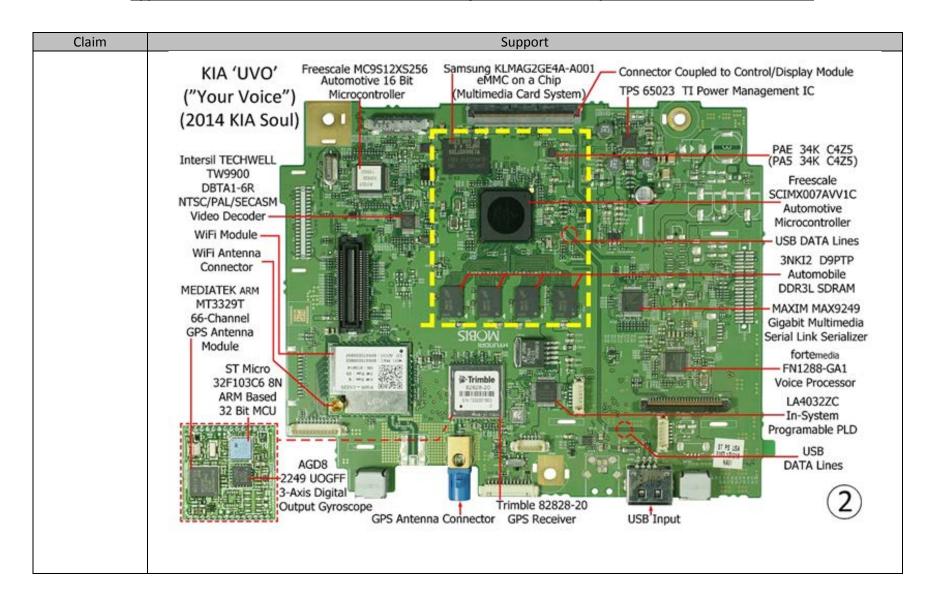
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

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

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



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

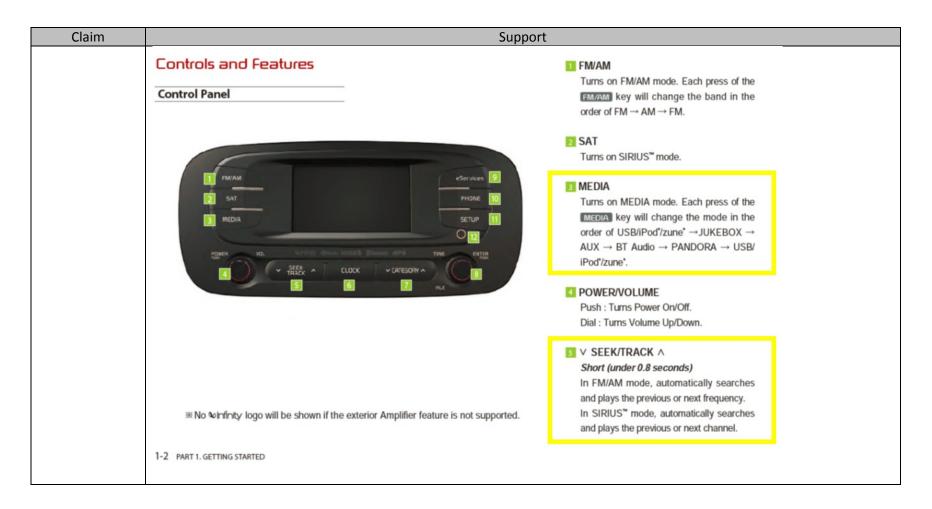


Claim		Support	
	SYSTEM CONTROLLERS AND FUNCTIONS # Display and settings may differ depending on the selected audio.	# In Setup>Display, the radio pop up screen will be displayed when [Mode Pop up] is turned On. When the pop up screen is displayed, use the TUNE knob or keys 1 ~ 6 to select the desired mode.	Briefly press the key (under 0.8 seconds): Moves to the Display, Sound, Clock, Phone, System setting modes Press and hold the key (over 0.8 seconds): Move to the Time setting screen
	Audio Head Unit PS34001N (1) RADIO Changes to FM/AM/SiriusXM™ mode. Each time the key is pressed, the mode is changed in order of FM1 → FM2 → AM → SAT1 → SAT2 → SAT3.	Changes to USB(iPod®), AUX, My Music, BT Audio mode. Each time the key is pressed, the mode is changed in order of USB(iPod®), AUX, My Music, BT Audio. In Setup>Display, the media pop up screen will be displayed when [Mode Pop up] is turned On . When the pop up screen is displayed, use the TUNE knob or keys 1 ~ 5 to select the desired mode. (3) PHONE Operates Phone Screen When a phone is not connected, the connection screen is displayed.	Radio Mode: Automatically searches for broadcast frequencies. USB, iPod®, My Music modes - Briefly press the key (under 0.8 seconds): Moves to next or previous song (file) - Press and hold the key (over 0.8 seconds): Rewinds or fast-forwards the current song. BT Audio mode: Moves to next or previous song(file) - The Play/Pause feature may operate differently depending on the mobile phone.
			4 159

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

Claim		Support	
	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. * Audio may not automatically start playing in some mobile phones.	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the © TUNE knob to play and pause the current song. BTAUdio © USB AUX 12:00 • No Artist ** MUSIC_01.mp3 ** The title / artist info may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press FEEK or FEEK or Play previous or next song. ** The previous song / next song / play / pause functions may not be supported in some mobile phones.	
	4 178 See, e.g., Ex. A (2014 Kia Soul Owner's N	Manual) at 4:159, 178.	

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



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

Claim		Support	
Ciaiii	In MEDIA mode (USB, iPod*, zune*, BT AUDIO), plays the previous or next track, song, or file. In PANDORA Radio, PANDORA Radio skip (Seek up). In JUKEBOX mode, plays the previous or next track. Long (over 0.8 seconds) In FM/AM mode, quickly moves through the frequencies when the button is pressed and held. Once released, automatically searches and plays the previous or next frequency. In SIRIUS™ mode, quickly moves to the previous or next channel. In MEDIA mode (USB, iPod*, zune*, BT AUDIO), REW/FF the current track, song, or file. In JUKEBOX mode, REW/FF the current track.	In SIRIUS™ mode, moves to the previous or next SIRIUS™ category. 3 TUNE In FM/AM mode, turn the knob to manually search for frequencies. In SIRIUS™ mode, turn the knob to manually search for channels. Press the knob to receive the selected channel. In MEDIA mode (USB, iPod*, zune*), turn the knob to manually search for the previous or next track, song, or file. Press the knob to receive the selected track, song, or file. In PANDORA Radio, searches PANDORA Radio stations. In JUKEBOX mode, turn the knob to manually search for the previous or next track. Press the knob to receive the selected track.	Displays Bluetooth* wireless technology Phone mode. SETUP Displays SETUP mode. RESET Reset the system to be used if system is acting abnormally.
	CLOCK Displays the clock setting screen.	eServices Displays UVO eServices mode.	
			PART 1. GETTING STARTED 1-3

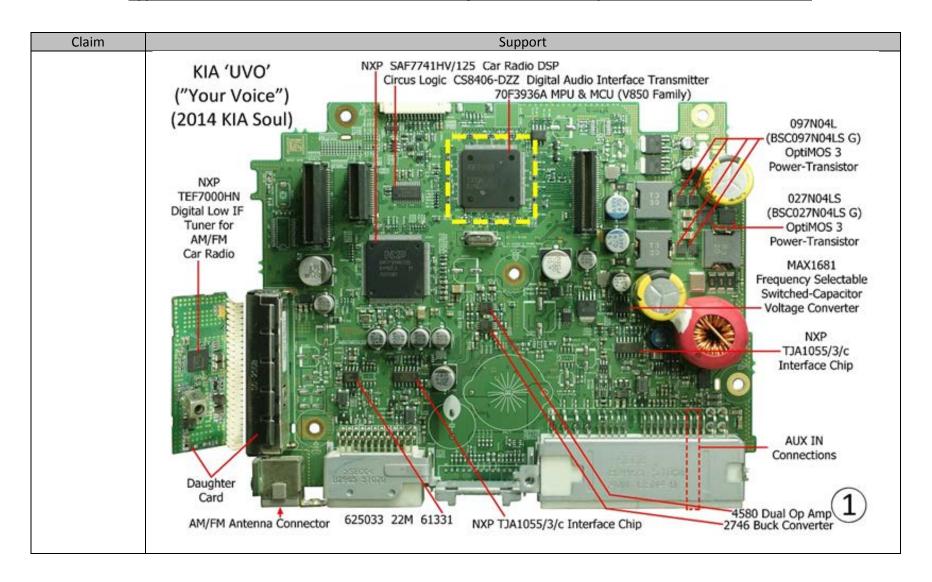
Claim	Support			
	BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth® wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth® wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth® wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth® wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio Sph-W9200 Mode Display Displays the current mode as BT Audio mode. Bluetooth wireless technology enabled device information Displays information about the Bluetooth wireless technology enabled device Song Title Displays the song title. Play/Pause Plays/pauses the song. Sound Enters Sound Setup.	Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. 7 Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. 8 Bluetooth® wireless technology connection state Becomes displayed when a Bluetooth® wireless technology enabled phone has been connected with the car system.	

Claim		Support	
Claim	Listening to music from your Bluetooth* wireless technology enabled device 1. Pair your Bluetooth* wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth* wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel to turn on RT audio mode. 3. When streaming music from your Bluetooth* wireless technology enabled device and you wish to pause, press the will button next on the screen. Press the will button to restart music. Note * While music saved in the Bluetooth* wireless technology enabled device will automatically begin playing after converting to the BT Audio screen, this music player function may not be supported in some Bluetooth* wireless technology enabled devices. 2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO Ma See, e.g., video (Stream Music from Yohttps://www.youtube.com/watch?v=4	• If music does not begin playing even after displaying the Phone music screen, try starting the music directly from the Bluetooth wireless technology enabled device. Selecting a song 1. Press the keys on the control panel or the or keys on the steering wheel controller to play the desired song. 2. The previous or next song will begin playing. Note • File selection may not be supported in some Bluetooth wireless technology enabled devices.	REW/FF a song 1. Press and hold the or very keys (over 0.8 seconds) on the control panel or the very keys (over 0.8 seconds) on the steering wheel controller. 2. The track will rewind or fast-forward at a rate 20 times faster than normal while the key is being held. 3. Release the key to play from the current position. Note • The play/pause, song selection and REW/FF features are supported only in handset devices with AVRCP Ver. 1.3 or higher. If play control features are not working, first check the AVRCP version of your Bluetooth wireless technology enabled device. • When such operations are not supported, use the handset device to perform these functions.

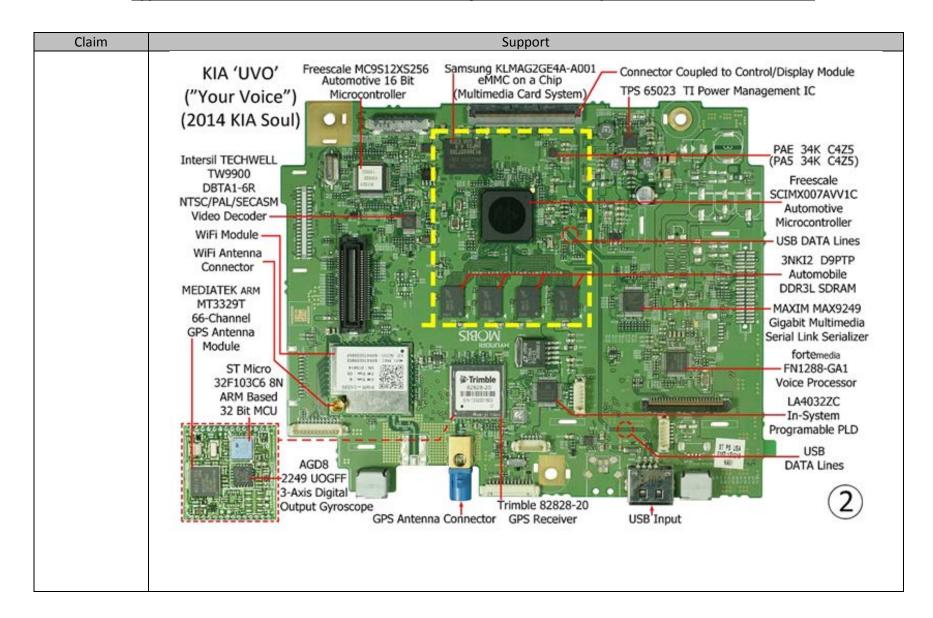
Appendix D - Claim Chart for US Patent No. 8,155,342 Against Infotainment Systems of Accused Kia Automobiles

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

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



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



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

Claim		Support	
	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing. * Audio may not automatically start playing in some mobile phones.	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the TUNE knob to play and pause the current song. BTAudio TUNE knob to play and pause the current song. BTAudio TUNE knob to play and pause the current song. BTAudio TUNE knob to play and pause the current song. BTAudio TUNE knob to play and pause the current song. The title / artist into may not be supported in some mobile phone. When it is not supported, no title/no artist will be displayed. • Previous / Next song Press TRACK or TRACK to play previous or next song. The previous song / next song / play / pause functions may not be supported in some mobile phones.	
	See, e.g., Ex. A (2014 Kia Soul Owner's Manua	al) at 4:178.	

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

Claim	Support		
	BT Audio mode is a feature which allows you to stream music stored in your handset device via a Bluetooth* wireless technology connection. Music saved in the handset device can be played in the car through Bluetooth* wireless technology audio streaming. BT audio can be played only when a handset device has been connected. To play BT audio, pair a handset device with the system. If Bluetooth* wireless technology is disconnected while playing BT audio, music play will be discontinued. The audio streaming function may not be supported in some handset devices. Only one function can be used at a time between the Bluetooth* wireless technology handsfree or BT audio function. Playing music from the car is not possible when there are no music files stored in the handset device.	BT Mode Screen and Features BT Audio Don't Say You Love N Mode Display Displays the current mode as BT Audio mode. Bluetooth* wireless technology enabled device information Displays information about the Bluetooth* wireless technology enabled device Song Title Displays the song title. Play/Pause Plays/pauses the song. Sound Enters Sound Setup.	Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones. Signal Strength Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones. Bluetooth wireless technology connection state Becomes displayed when a Bluetooth wireless technology enabled phone has been connected with the car system.

Claim	Support	
	Listening to music from your Bluetooth® wireless technology enabled device 1. Pair your Bluetooth® wireless technology enabled device to the handsfree system. For more information on pairing your Bluetooth® wireless technology enabled devices, refer to the 'Pairing your handset device to the handsfree system' section. 2. Press the MEDIA key on the control panel to turn on BT audio mode. 3. When streaming music from your Bluetooth® wireless technology enabled device and you wish to pause, press the ID button next on the screen. Press the ID button to restart music. * If music does not begin playing even after displaying the Phone music screen, try start- ing the music directly from the Bluetooth® keys (over 0.8 panel or the seconds) on the 2. The track will re control panel or the Or Veys on the steering wheel controller to play the desired song. 2. The previous or next song will begin playing. * If music does not begin playing even after displaying the Phone music screen, try start- ing the music directly from the Bluetooth® keys (over 0.8 panel or the seconds) on the 2. The track will re rate 20 times far key is being held 3. Release the key position. * Note * File selection may not be supported in some Bluetooth® wireless technology enabled devices. * When such operation of the Bluetooth® wireless technology enabled devices with AVF play control features are sup devices with AVF wireless technology enabled devices. * When such operation of the Bluetooth® wireless technology enabled devices with AVF	d the seconds) on the control seconds) on the control keys (over 0.8 steering wheel controller. ewind or fast-forward at a ster than normal while the d. by to play from the current seconds and REW/FF oported only in handset RCP Ver. 1.3 or higher. If the are not working, first version of your Bluetooth*
	2-28 PART 2. AUDIO FEATURES See, e.g., Ex. B (2015 Kia Soul UVO Manual) at 2:27-28. See, e.g., video (Stream Music from Your Smart Phone - 2014 Kia Uvo eServices Infattps://www.youtube.com/watch?v=4LvVqYtcTho).	fotainment System with Navigation:
55. The system of claim 49, wherein said integration	The accused Kia automobiles permit various control and audio commands to be su processed by a voice recognition subsystem of the car audio/video system. Voice issued by a user may be used by the car audio/video system to instruct the portab	recognition of spoken control commands

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

Claim		g	Support
subsystem further comprises a voice recognition subsystem for receiving and processing spoken control commands issued by a user.	Command My Music AUX (Auxiliary) Bluetooth® Audio Please repeat Mute Cancel (Exit)	Function Plays the music saved in My Music. Plays the connected external device. Plays the music saved in connected Bluetooth® device. Repeats the most recent comment. Mutes the sound. Ends voice command.	
	See, e.g., Ex. A (2	2014 Kia Soul Owner's Manual) at 4:197.	1 197

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

Claim	Support		
	3. MEDIA		
	Command	Operation	
	Play {zune[*], iPod[*], USB}	Plays the selected media mode.	
	Play {Bluetooth® audio, AUX}	Plays the selected media mode.	
	Play artist {artist name}	Plays songs of the selected artist.	
	Play album {album name}	Plays songs of the selected album.	
	Play track {track name}	Plays the selected track.	
	Play playlist {playlist name}	Plays songs of the selected playlist.	
	Play genre {genre}	Plays songs of the selected genre	
	 Play audiobook {title} 	(iPod only) Plays the selected audiobook.	
	Play podcast {podcast}	(iPod only) Plays the selected iPod podcast.	
	 Play composer {composer} 	Plays songs for the selected composer.	
	What's playing?	Reads back the current song information.	
	Repeat {on, off}	Turns the repeat feature on or off.	
	Shuffle {on, off}	Turns the shuffle feature on or off.	
	Play {zune[*], iPod[*], USB} artist {name}	Plays songs for the selected artist in the selected media mode.	
	 Play {zune , iPod , USB} album {name} 	Plays songs for the selected album in the selected media mode.	
	 Play {zune[*], iPod[*], USB} track {name} 	Plays the selected track in the selected media mode.	
	 Play {zune , iPod , USB} playlist {name} 	Plays the selected playlist in the selected media mode.	
	 Play {zune[*], iPod[*], USB} genre {genre} 	Plays songs for the selected genre in the selected media mode.	
	 Play {Czune , iPod , USB} composer {name} 	Plays songs for the selected composer in the selected media mode.	
	 Play iPod audiobook {title} 	(iPod only) Plays the selected iPod audiobook.	
	 Play iPod podcast {podcast} 	(iPod only) Plays the selected iPod podcast.	
		·	
		PART 4. VOICE COMMANDS 4-11	
	See, e.g., Ex. B (2015 Kia Soul UVO Manu	al) at 4:11.	
	, , , , , , , , , , , , , , , , , , , ,	,	
56. The system	Fach of the accused Kia automobiles incl	udes a device presence signal that "maintain[s] the car audio/video system in a	
of claim 49,		Specifically, when a portable device is paired via Bluetooth, a Bluetooth graphi	ic
wherein said		•	
integration	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		
integration	and recognized, the integration subsyste	in maintains the car addio/video system in a state responsive to processed data	

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

Claim	Support
subsystem	and audio signals from the portable device.
generates a	
device presence	The device presence signal is generated when at least the Freescale microcontroller of the integration subsystem (and
signal and	potentially other microcontrollers on one or more circuit boards of the device integration system) executes pre-
transmits the	programmed code stored in onboard flash and/or other memory modules, and/or within firmware elsewhere in the
device presence	interface (such as within the Freescale microcontroller itself) in response to its receipt from the first wireless interface of a
signal to the car	signal indicating that a portable device has established a connection via Bluetooth.
audio/video	
system to	The device presence signal can be identified by examining the source code in the integration subsystem of the accused Kia
maintain the car	automobiles.
audio/video	
system in a state	
responsive to	
the portable	
device.	

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

Claim		Support
	Starting Bluetooth® Wireless Technology Audio • Press the MEDIA key to change the mode in order of USB→AUX →My Music→BT Audio. • If BT Audio is selected, Bluetooth® Wireless Technology audio will start playing.	Using the Bluetooth® Wireless Technology audio features • Play / Stop Press the TUNE knob to play and pause the current song. BTAUdio 10
	See, e.g., Ex. A (2014 Kia Soul Owner's Man	ual) at 4:178.

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

Claim	Support
Cidiffi	BT AUDIO MODE BT Audio mode is a feature which allows you to stream music stored in your handset device can be played in the car through Bluebooth* wireless technology audio streaming. BT audio can be played only when a handset device can be played only when a handset device can be played only when a handset device has been connected. To play BT audio, pair handset device with the system. If Bluebooth* wireless technology is disconnected while playing BT audio streaming function may not be displayed in some mobile phones. If Mode Display Displays the current mode as BT Audio mode. Bluebooth* wireless technology is disconnected while playing BT audio music play will be discontingued. The audio streaming function may not be displayed in some mobile phones. Bluebooth* wireless technology connection state Becomes displayed when a Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device information Displays information about the Bluebooth* wireless technology enabled device about the car is not possible when there are no music files stored in the handset device. PlayPause Playspauses the song. Sound Enters Sound Setup. PART 2. AUDIO FEATURES 2-27 See, e.g., video (Stream Music from Your Smart Phone - 2014 Kia Uvo eServices Infortainment System with Navigation:
	https://www.youtube.com/watch?v=4LvVqYtcTho).
57. The system of claim 49, wherein said	See claim 55 support.

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

Claim	Support
player, a WMV	
player, an Apple	
iPod, or an	
Apple video	
iPod.	
64. The system	See claim 62 support.
of claim 49,	
wherein the	
portable device	
comprises a	
cellular	
telephone.	
71. The system	See claim 49 support.
of claim 49,	
wherein the	
audio file	
comprises a	
song stored on	
the portable	
device.	
[700] 4	
[73P]. A	See preamble [49P] support.
multimedia	
device	
integration	
system,	
comprising:	See element [49A] support.
[73A]. an	See element [49A] support.
integration subsystem in	
communication	
communication	

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

Claim	Support
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,	
[73D] instructs	See element [49D] support
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	

Claim	Support
system.	
74. The system	See claim 50 support.
of claim 73,	
wherein said	
integration	
subsystem is	
positioned	
within the car	
audio/video	
system.	
75 Th	Constitute 54 and a second
75. The system	See claim 51 support.
of claim 74, wherein said	
first wireless	
interface is	
positioned	
within the car	
audio/video	
system.	
9,000	
76. The system	See claim 52 support.
of claim 75,	
wherein said	
second wireless	
interface is	
positioned	
within the	
portable device.	
77 The most and	Conclusion F2 assessment
77. The system of claim 73,	See claim 53 support.
oi cialili 75,	

Claim	Support
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.	
78. The system	See claim 54 support.
of claim 73,	
wherein said	
integration	

Claim	Support
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.	
79. The system	See claim 55 support.
of claim 73,	
wherein said	

Claim	Support
integration	
subsystem	
further	
comprises a	
voice	
recognition	
subsystem for	
receiving and	
processing	
spoken control	
commands	
issued by a user.	
80. The system	See claim 55 support.
of claim 79,	
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.	
95. The system	See claim 71 support.
of claim 73,	
wherein the	
audio file	

Claim	Support
comprises a	
song stored on	
the portable	
device.	
[97P] A	See preamble [49A] support.
multimedia	
device	
integration	
system,	
comprising:	
[97A] first and	See element [49B] support.
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	
[97B] an	See element [49A] support.
integration	
subsystem in	
communication	
with said	
wireless	
communication	
link,	
[97C] wherein	See element [49C] and [49D] support.

Claim	Support
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,	
and	
[97D] wherein	See claim 53 support.
said integration	
subsystem	
receives a	
control	
command	
issued by a user	
through one or	
more controls of	
the car	
audio/video	

Claim	Support
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.	
99. The system	See claim 50 support.
of claim 97,	
wherein said	
integration	
subsystem is	
positioned	
within the car	
audio/video	
system.	
100. The system	See element [49C] support.
of claim 97,	
where the audio	

Claim	Support
file is stored on	
the portable	
device.	
101. The system	See element [73C] support.
of claim 97,	
wherein the	
audio file is	
received by the	
portable device.	
102. The system	See claims 55 and 57 support.
of claim 97,	
wherein said	
integration	
subsystem	
further	
comprises a	
voice	
recognition	
subsystem for	
receiving and	
processing	
spoken control	
commands	
issued by the	
user.	
102 The system	Conclaims EE and E7 support
103. The system of claim 102,	See claims 55 and 57 support.
wherein said	
integration	
subsystem	

Claim	Support
instructs said	
portable device	
to play a desired	
file in response	
to a spoken	
command	
processed by	
the voice	
recognition	
subsystem.	
106. The system	See claim 56 support.
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.	
109. The system	See claim 62 support.
of claim 97,	see ciaini oz support.

Claim	Support
wherein the	
portable device	
comprises a	
portable digital	
media player.	
110. The system	See claim 63 support.
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.	
ii ou.	
111. The system	See claim 64 support.
of claim 97,	
wherein the	
portable device	
comprises a	
cellular	
telephone.	
120. A	See preamble [97P] support.

Claim	Support
multimedia	
device	
integration	
system,	
comprising:	
first and second	See element [97A] support.
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	
an integration	See element [97B] support
subsystem in	
communication	
with said	
wireless	
communication	
link,	
wherein said	See element [97C] support.
integration	
subsystem	
instructs the	
portable device	
to play an audio	
file in response	
to a user	

Claim	Support
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	
wherein said	See element [97D] support.
integration	
subsystem	
receives data	
generated by	
the portable	

Claim	Support
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.	