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FIRST NAMED APPLICANT Michael J. Koss

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Publication No.US-2019-0075390-A1 Publication Date:03/07/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

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In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/182.927	11/07/2018	Michael J. Koss	080188PCTUSCON9	2160
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PITTSBURGH	, PA 15222-2613		ARTUNIT	PAPER NUMBER
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			NOTIFICATION DATE	DELIVERY MODE
			04/11/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USpatentmail@klgates.com

PTOL-90A (Rev. 04/07)

16	Application No. Applicant(s) 16/182,927 Koss et al.			
	xaminer IET M DOAN	Art Unit 2641	AIA (FITF) Status No	
- The MAILING DATE of this communication appear	rs on the cover sheet wit	th the corresponde	nce address -	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a date of this communication. If NO period for reply is specified above, the maximum statutory period will a Failure to reply within the set or extended period for reply will, by statute, can Any reply received by the Office later than three months after the mailing dat adjustment. See 37 CFR 1.704(b).	a). In no event, however, may a re apply and will expire SIX (6) MON use the application to become AB	ply be timely filed after SIZ THS from the mailing date ANDONED (35 U.S.C. § 1	K (6) MONTHS from the mailing of this communication 33).	
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Responsive to communication(s) filed on 11/07/20 A declaration(s)/affidavit(s) under 37 CFR 1.130	(b) was/were filed on _			
	his action is non-final.	The state of the state of the	Same Comment	
3) An election was made by the applicant in response the restriction requirement and election has			ring the interview on	
4) Since this application is in condition for allowance closed in accordance with the practice under Exp				
Disposition of Claims*				
5) ☑ Claim(s) 2-15 is/are pending in the application	on.			
5a) Of the above claim(s) is/are withdrawn	from consideration.			
6) Claim(s) is/are allowed.				
7) Claim(s) 2-15 is/are rejected.				
8) Claim(s) is/are objected to				
9) Claim(s) are subject to restriction and/or * If any claims have been determined allowable, you may be eligib participating intellectual property office for the corresponding appliants/init_events/pph/index.jsp or send an	le to benefit from the Pate cation. For more informati	on, please see	hway program at a	
Application Papers				
10) The specification is objected to by the Examiner.		and an bir the Fire	a la a l	
11) The drawing(s) filed on 11/07/2018 is/are: a) Applicant may not request that any objection to the draw Replacement drawing sheet(s) including the correction is	ring(s) be held in abeyance	e. See 37 CFR 1.85(a	a),	
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign pr Certified copies:				
a) ☐ All b) ☐ Some** c) ☐ None of the:				
 Certified copies of the priority document 	s have been received.			
Certified copies of the priority document	s have been received in	Application No		
 Copies of the certified copies of the prior application from the International Bureau 		en received in this	National Stage	
** See the attached detailed Office action for a list of the certified	copies not received.			
Attachment(s)				
1) V Notice of References Cited (PTO-892)	3) [Interview S	Summary (PTO-413)		
2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08Paper No(s)/Mail Date	(8h)	s)/Mail Date		

U.S. Patent and Trademark Office

PTOL-326 (Rev. 11-13) Office Action Summary

Part of Paper No/Mail Date 20190404

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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 11/07/2018. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

The drawings were received on 11/07/2018 these drawing are acceptable by the examiner.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

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be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 2-15 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 14 and 30 of US Patent 8,190,203 B2; claims 1 and 5-6 of US Patent 8,571, 544 B2; claims 1, 10 and 13 of US Patent 9,049,502 B2; claim 1 of US Patent 8,655,420 B1; claim 1 of US Patent 9,438,987 B2; claims 1, 8 and 11 of US Patent 9,497,535 B1; claims 1-3 of US Patent 9,729,959 B2; claims 1-3 of US Patent 9,986,325 B2; claim 1 of US Patent 10,206,025 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim 2 limitation are found in claims 1, 14 and 30 of US Patent 8,190,203 B2; claims 1 and 5-6 of US Patent 8,571, 544 B2; claims 1, 10 and 13 of US Patent 9,049,502 B2; claim 1 of US Patent 8,655,420 B1; claim 1 of US Patent 9,438,987 B2; claims 1, 8 and 11 of US Patent 9,497,535 B1; claims 1-3 of US Patent 9,729,959 B2; claims 1-3 of US Patent 9,986,325 B2; claim 1 of US Patent 10,206,025 B2 with obvious wording variation such as they all sets of claims are drawn to first and second earphones, wherein each of the first and second earphones comprises an acoustic transducer; an antenna for receiving wireless signals and playing digital audio content received wirelessly by the headphone.

It is important to note that claimed features recited in claims 1, 14 and 30 of US
Patent 8,190,203 B2; claims 1 and 5-6 of US Patent 8,571,544 B2; claims 1, 10 and 13
of US Patent 9,049,502 B2; claim 1 of US Patent 8,655,420 B1; claim 1 of US Patent

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9,438,987 B2; claims 1, 8 and 11 of US Patent 9,497,535 B1; claims 1-3 of US Patent 9,729,959 B2; claims 1-3 of US Patent 9,986,325 B2; claim 1 of US Patent 10,206,025 B2 are more specific than claimed features recited in claim 2 of the instant application. Hence, the scope of claims of present application is now broader than U.S. Patent No. 8,190,203; 8,571, 544; 9,049,502; 8,655,420; 9,438,987; 9,497,535; 9,729,959; 9,986,325 and 10,206,025

Many decisions support the fact that a broad or generic claim is obvious from a specific claim, i.e., an obvious variation. See In re Van Ornum and Stang, 214 USPQ 761 (CCPA 1982); In re Goodman (CA FC) 29 USPQ2d 2010 (12/3/1993); In re Vogel and Vogel; 164 USPQ 619 (CCPA 1970); In re Berg (CA FC) 46 USPQ2d 1226 (3/30/1998); Eli Lilly and Co. v. Barr Laboratories Inc., 58 USPQ2d 1865 (CA FC 2001). It is well settled that omission of an element and its function in a combination is an obvious expedient if the remaining elements perform the same functions as before. This notion is supported by In re KARLSON, 136 USPQ 184 (1963); In re Nelson, 95 USPQ 82 (CCPA 1952); and In re Eliot, 25 USPQ 111 (CCPA 1935).

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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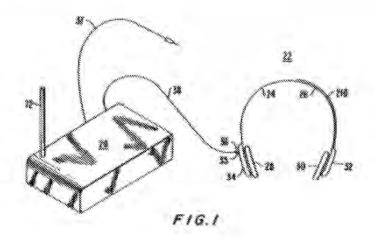
Page 5

Claims 2, 3, 7-10 and 12-23 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Borchardt et al. (US 5,410,735) in view of Yamashita et al. (US 2004/0063459 A1).

Regarding claim 2. Borchardt (New) a wireless headphone assembly comprising:

first and second earphones, wherein each of the first and second earphones comprises an acoustic transducer (Col.7, lines 38-43, fig.1 Illustrate and teach receiver
unit 22 included a headphone unit 24 and earpads 28 and 30 as read on first and
second earphones comprises an acoustic transducer);

an antenna for receiving wireless signals (Col.4, lines 15-16, Col.7, lines 56-59, teach antenna 210 for receiving wireless signals);



a wireless communication circuit connected to the antenna, wherein the wireless communication circuit is for receiving and transmitting wireless signals to and from the wireless headphone assembly (Col.7, lines 30-37, 65-67, Col.8, lines 1-3 teach receiver 22 receiving wireless audio signal from transmitter 20);

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a processor in communication with the wireless communication circuit; and a rechargeable battery for powering the wireless headphone assembly (Col.5, lines 50-60, Col.7, 44-50 teach rechargeable battery for powering the wireless headphone).

Borchardt is silent on

wherein the headphone assembly is configured, with the processor, to transition automatically from playing digital audio content received wirelessly by the headphone assembly via a first wireless network to playing digital audio content received wirelessly by the headphone assembly via a second wireless network.

In an analogous art, Yamashita teaches

wherein the headphone assembly is configured, with the processor, to transition automatically from playing digital audio content received wirelessly by the headphone assembly via a first wireless network to playing digital audio content received wirelessly by the headphone assembly via a second wireless network (Paragraphs [0014], [0076] teach headphone 20 automatic playing digital audio content received wirelessly from audio player 10).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filling date of the claimed invention was made to modify Borchardt with Yamashita's system such that an earphones -comprises an acoustic transducer, an antenna for receiving wireless signal, a rechargeable battery for powering the wireless headphone automatically from playing digital audio content received wirelessly in order to provide the convenient to the user and listen to music without interrupt.

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Regarding claim 3. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, Yamashita teaches wherein the processor is further configured to, upon activation of a user-control of the headphone assembly, initiate transmission of a request to a remote network server (Paragraphs [0053-0054]).

Regarding claim 7. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, further Borchardt teaches comprising a headband connected between the first and second earphones (Col.7, lines 45-48).

Regarding claim 8. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 7, Yamashita teaches wherein the first and second earphones comprise speaker elements housed in on-ear headphones (Paragraph [0048])

Regarding claim 9. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 7, Yamashita teaches wherein the first and second earphones comprise speaker elements housed in over-ear headphones (Paragraphs [0048], [0058]).

Regarding claim 10. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, Borchardt and wherein each of the first and second earphones comprises:

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a hanger bar that sits upon an upper external curvature of a user's ear; and a body connected to the hanger bar, wherein the acoustic transducer is connected to the body (fig.1, Illustrate headphone 24 as read on hanger bar that sits upon an upper external curvature of a user's ear)

Regarding claim 12. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, Yamashita teaches wherein the processor is configured to transition automatically from playing digital audio content received wirelessly by the headphone assembly via the first wireless network to playing digital audio content received wirelessly by the headphone assembly via the second wireless network based on a signal strength level for the second wireless network (Paragraphs [0014], [004-0045], [0076]).

Regarding claim 13. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 12, Yamashita teaches wherein the processor is configured to transition automatically from playing digital audio content received wirelessly by the headphone assembly via the first wireless network to playing digital audio content received wirelessly by the headphone assembly via the second wireless network based on whether the signal strength level for the second wireless network is above a threshold level. (Paragraphs [0014], [004-0045], [0076]).

Claims 4-6 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Borchardt et al. (US 5,410,735) in view of Yamashita et al. (US 2004/0063459 A1) and further view of Smith (US 2009/0262205 A1).

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Regarding claim 4. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 3, **but is silent on** wherein: the headphone assembly further comprises a microphone; and the processor is further configured to:

process audible utterances by a user of the headphone assembly picked up by the microphone in response to activation of the microphone by the user; and transmit a communication based on the audible utterances via the first or second wireless networks.

In an analogous art, Smith teaches

wherein: the headphone assembly further comprises a microphone; and the processor is further configured to:

process audible utterances by a user of the headphone assembly picked up by the microphone in response to activation of the microphone by the user; and transmit a communication based on the audible utterances via the first or second wireless networks (Paragraphs [0036], fig.3 Illustrate and teach the headset contain microphone logic that detect voice commands spoken by the user).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filling date of the claimed invention was made to modify Borchardt and Yamashita with Smith's system such that process audible utterances by a user of the headphone assembly picked up by the microphone in response to activation of the microphone by the user in order to provide the convenient to the user and without physically controlling the headphone.

Regarding claim 5. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, further Smith teaches wherein: the first earphone comprises a first earbud; and the second earphone comprises a second earbud (Paragraph [0035])

Regarding claim 6. The combination of Borchardt and Yamashita and Smith teach the wireless headphone assembly of claim 5, Borchardt teaches wherein each of the first and second earphones comprises:

an antenna;

a wireless communication circuit connected to the at least the antenna (Col.4, lines 15-16, Col.7, lines 56-59); a processor in communication with the wireless communication circuit; and a rechargeable battery for powering the wireless headphone assembly (Col.5, lines 50-60, Col.7, 44-50).

Claim 11 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Borchardt et al. (US 5,410,735) in view of Yamashita et al. (US 2004/0063459 A1) and further view of Goldman et al. (US 2011/0275323 A1)

Regarding claim 11. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, **but is silent on** comprising a docking station to charge the rechargeable battery when the first and second earphones are connected to the docking station.

In an analogous art, Goldman teaches

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comprising a docking station to charge the rechargeable battery when the first and second earphones are connected to the docking station (Paragraphs [0058], fig.1 and fig.1 Illustrate headset base unit as read on docking station that to charge the rechargeable battery when the first and second earphones are connected to the docking station).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filling date of the claimed invention was made to modify Borchardt and Yamashita with Goldman's's system such that comprising a docking station to charge the rechargeable battery when the first and second earphones are connected to the docking station in order to provide saving cost by recharging the battery.

Claim 14 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Borchardt et al. (US 5,410,735) in view of Yamashita et al. (US 2004/0063459 A1) and further view of Terlizzi (US 2010/0022283 A1)

Regarding claim 14. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, but is silent on wherein the processor is further configured to receive firmware updates from a remote computer device.

In an analogous art, Terlizzi

wherein the processor is further configured to receive firmware updates from a remote computer device (Paragraphs [0044], [0051] teach firmware update).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filling date of the claimed invention was made to modify Borchardt and Yamashita with Terlizzi's system such that wherein the processor is further configured

to receive firmware updates from a remote computer device in order to improve the operation of the user device.

Claim 15 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Borchardt et al. (US 5,410,735) in view of Yamashita et al. (US 2004/0063459 A1) and further view of Borras et al. (US 2007/0281676 A1).

Regarding claim 15. The combination of Borchardt and Yamashita teach the wireless headphone assembly of claim 2, but is silent on comprising a memory unit that stores network identifiers for the first and second wireless networks.

In an analogous art, Borras teaches

a memory unit that stores network identifiers for the first and second wireless networks (Paragraphs [0013] device has a memory for stroing each of network identity). Therefore, it would have been obvious to one of ordinary skill in the art before the effective filling date of the claimed invention was made to modify Borchardt and Yamashita with Borras's system such that a memory unit that stores network identifiers for the first and second wireless networks in order to provide the user of headphone an easy access to network that the headphone identify.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIET M DOAN whose telephone number is (571)272-7863. The examiner can normally be reached on M-F 9:30am-5:30pm.

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Art Unit: 2641

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIET M DOAN/ Primary Examiner, Art Unit 2641

Application/Control No. Applicant(s)/Patent Under 16/182,927 Reexamination Koss et al. Notice of References Cited Examiner Art Unit KIET M DOAN 2641 Page 1 of 1 U.S. PATENT DOCUMENTS **Document Number** Date **GPC** Classification US Classification Name MM-YYYY Country Code-Number-Kind Code A US-20070281676-A1 12-2007 Borras; Jaime A. H04M1/2745 455/418 * В US-5410735-A 04-1995 H04B1/0096 348/E5.093 Borchardt, Robert L. C US-20090005129-A1 01-2009 McLoone; Hugh E. A63F13/02 455/575.2 * D 10-2009 US-20090262205-A1 Smith; Dana Stephen H04N5/2251 348/211.4 E US-20100022283-A1 01-2010 H04M1/05 455/570 Terlizzi; Jeffrey J. F 11-2011 US-20110275323-A1 H04M1/04 455/41.2 Goldman; Tomasz G US-20040063459-A1 04-2004 Yamashita, Naoya H04H20/88 455/556.1 H Ĭ. J K M FOREIGN PATENT DOCUMENTS Document Number Date Country Name CPC Classification MM-YYYY Country Code-Number-Kind Code N 0 P 0 B S T NON-PATENT DOCUMENTS Include as applicable: Author: Title Date, Publisher, Edition or Volume, Perlinent Pages)

"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Notice of References Cited

Part of Paper No. 20190404

Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
16/182,927	Koss et al.
Examiner	Art Unit
KIET M DOAN	2641

Symbol	Date	Examiner
H04R1/1016	04/05/2019	KD
H04R1/1008	04/05/2019	KD

CPC Combination Sets - Searched*			
Symbol	Date	Examiner	

US Classification - Searched*				
Class	Subclass	Date	Examiner	
381	74	04/05/2019	KD	
	80 -	04/05/2019	KD	
	311	04/05/2019	KD	
455	556.1	04/05/2019	KD	
	41.2	04/05/2019	KD	
	343.2	04/05/2019	KD	
	569.1	04/05/2019	KD	
	553,1	04/05/2019	KD	
	575.2	04/05/2019	KD	
	412.2	04/05/2019	KD	

^{*} See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/KIET M DOAN/		
Primary Examiner, Art Unit 2641		
LS. Patent and Trademark Office	2000 - 049	Part of Paper No.: 2019040



Application/Control No.	Applicant(s)/Patent Under Reexamination
16/182,927	Koss et al.
Examiner	Art Unit
KIET M DOAN	2641

Search Notes				
Search Notes	Date	Examiner		
inventor search	04/05/2019	KD		
East search	04/05/2019	KD		
(earphone earcup headset headphone earbud) with acoustic\$1 with transducer\$3 and (earphone earcup headset headphone earbud) with antenna\$1 with wireless and play\$3 with (audio music song\$1)	04/05/2019	KD		
((H04R5/033 OR H04R1/1008 OR H04R1/105).CPC.)	04/05/2019	KD		
earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless	04/05/2019	KD		
((H04R1/1008 OR H04R1/1016 OR H04R1/105 OR H04R29/004 OR G10K2210/1081).CPC.)	04/05/2019	KD		
earphone earcup headset headphone) and earbud and microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad<"20090202"	04/05/2019	KD		
(earphone earcup headset headphone earbud) with acoustic\$1 and firmware with updat\$3 and @ad<"20090101"	04/05/2019	KD		

Interference Search				
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner	
704	4	04/05/2019	KD	
381	374	04/05/2019	KD	

/KIET M DOAN/		
Primary Examiner, Art Unit 2641		
J.S. Patent and Trademark Office	40.04.02	Part of Paper No.: 20190404

Index of Claims	Application/Control No. 16/182,927	Applicant(s)/Patent Under Reexamination Koss et al.
	Examiner KIET M DOAN	Art Unit

1	Rejected	1	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	Ĭ	Interference	0	Objected

			CLA	AIMS			
Clair	Claims renumbered in the same order as presented by applicant CPA T,D. R.1.47						
CL	AIM			DATE	х — т.		
Final	Original	04/05/2019		= :10:=	311		- 110
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	11	1					
	12	1		1131	-		
	13	1		_ 11			
	14	1					
	15	1					
		1		- H 1			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	**	Time Stamp
L2	24	(earphone earcup headset headphone earbud) same automati\$4 with play\$3 with (song\$1 music audio digital) and wireless and @ad<"20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:07
L3	11	2 AND ((H04R5/033 OR H04R1/1016 OR H04L2012/2841 OR H04M1/6066 OR H04M1/7253 OR H04N1/00307).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:10
L4	8978	(earphone earcup headset headphone earbud) same microphone\$1 and (voice speak\$3 utteran\$3) with control\$3 and @ad<"20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:51
L5	3583	(earphone earcup headset headphone earbud) same microphone\$1 same (voice speak\$3 utteran\$3) with control\$3 and @ad<"20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:52
L6	3656	(earphone earcup headset headphone earbud) with microphone\$1 same (voice speak\$3 utteran\$3) with control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:52
L7	564	(earphone earcup headset headphone earbud) with microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:53
L8	140	7 and 455/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:53
L9	41	(earphone earcup headset headphone) and earbud and microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2019/04/05 11:34
L10	5	(earphone earcup headset headphone) and hanger near bar and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2019/04/05 12:06

Mantenant			IBM_TDB			
L11	34	(earphone earcup headset headphone earbud) with acoustic\$1 and firmware with updat\$3 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 12:45
L12	27	(earphone earcup headset headphone earbud) with acoustic\$1 and stor\$3 with network with identi\$4 and @ad< "20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:05
L13	2965976	(earphone earcup headset headphone earbud) and memory with stor\$3 with network neae2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:07
L14	50	(earphone earcup headset headphone earbud) and memory with stor\$3 with network near2 identi\$4 and @ad< "20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:10
L15	8	(earphone earcup headset headphone earbud) and memory with stor\$3 with (plurality multiple multi) with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:11
L16	21	(earphone earcup headset headphone earbud) and (memory stor\$3) with (plurality multiple multi) with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:13
L17	350	(earphone earcup headset headphone earbud) and stor\$3 with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:25
L18	132	(earphone earcup headset headphone earbud) and stor\$3 with network near2 identi\$4 and @ad<"20090101" and 455/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:25
L19	0	(earphone earcup headset headphone earbud) same stor\$3 with network near2 identi\$4 and @ad<"20090101" and 455/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:27
S1	2	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobilw wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (ip internet digital\$1)	USPAT	OR	OFF	2011/09/19 20:35
S2	10	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (ip internet digital\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:35
S3	0	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (mode state) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:42
S4	3	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:42
S5	11	(mobile wireless \$4phone) with out near1 (rang\$4 area) and automat\$5 with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2011/09/19 20:44

	1		DERWENT			isten in the second sec
S6	872	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:45
S7	145	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with (chang\$3 convert\$4 divert\$4) with network with (internet digital)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:45
S8	8	acoustic near transducer same (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and firmware	USPAT	OR	OFF	2011/09/19 21:30
59	46	acoustic near transducer same (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and firmware	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 21:30
S10	2	"7697899".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 21:33
S11	130	(mobile wireless) same acoustic near transducer and (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and digital and (audio sound)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/20 00:33
S12	25	S11 and stream\$3 and server	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/20 00:33
S13	91	("20020069263" "20040169581" "2660662" "3651471" "3732536" "3742463" "3845391" "4025851" "4237449" "4425642" "4514725" "4642685" "4718106" "4750034" "4807031" "4840602" "4846693" "4923428" "4945412" "5085610" "5090936" "5108341" "5113437" "5136613" "5191615" "5301167" "5305348" "5319735" "5353352" "5412620" "5436941" "5442343" "5446756" "5450490" "5479442" "5499265" "5519779" "5539705" "5555258" "5574773" "5579124" "5604767" "5657379" "5663766" "5828325" "55448155" "5930369" "5937000" "5945932" "5960398" "5978413" "5999899" "6021432" "6022273" "6031914" "6035177" "6061793" "6125172" "6290566" "6298322" "6370666" "6389055" "6434253" "6438117" "6442283" "6449596" "6577881" "6584138" "6636551" "6650877" "6708214"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/20

***************************************		"6737957" "6757300" "6765950" "6773344" "6782253" "6832093" "6850555" "6876623" "6892175" "6983051" "7031271" "7065342" "7158676").PN.				***************************************
S14	187	mbsfn and sfn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2012/02/29 11:27
S15	1	12/031462	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2012/02/29 11:29
S16	0	(mobile wireless \$4phone) with out near1 (rang\$4 area) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc))	USPAT	OR	OFF	2012/02/29 12:11
S17	1	(mobile wireless \$4phone) with out near1 (rang\$4 area) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:11
S18	2	(mobile wireless \$4phone) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	OFF	2012/02/29 12:15
S19	19	(mobile wireless \$4phone) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:16
S20	20	transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:17
S21	1003	(mobile wireless \$4phone) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:20
S22	8	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;		OFF	2012/02/29 12:21

			IBM_TDB			
S23	38203	(mobile wireless \$4phone) and transducer wand (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3	USPAT	OR	OFF	2012/02/29 13:54
S24	258	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 13:54
S25	21	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3.clm,	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 13:55
S26	25	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 13:59
S27	9	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and earphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 14:00
S28	1	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and earphone.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 14:03
S29	2	"8190203".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/03/21 23:39
S30	27	("20050064853" "20050198233" "20060206487" "20060212442" "20060212444" "20070008984" "20070037615" "20070049198" "20070116316" "20070165875" "20070230727" "20080062939" "20080101279" "20080291891" "20100246788" "5784685" "6792091" "6937712" "7003515" "7027311" "7099370" "7120388" "7139585" "7599679" "7697899" "7764775" "7805210").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:23
S31	0	(server computer) with internet and stream\$4 near audio near server and (headset earphone\$1 bluetooth) with	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:34

		(ap (access near point)) with internet		<u> </u>		
S32	41	(server computer) with internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) with internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:35
S33	2287	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and register\$3and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:52
S34	4	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and register\$3 and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:56
S35	4	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:57
S36	56	(earphone headset) with receiv\$3 with (song audio music) and convert\$4 near digital same analog and acoustic\$1 with transducer\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 18:50
S37	769	(earphone headset) and convert\$4 near3 digital with analog and acoustic\$1 with transducer\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:11
S38	464	S37 and @ad< "20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:13
S39	30	S37 and @ad< "20080101" and "455"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:15
S40	0	("8190203.pn.").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2013/06/08 23:17
S41	0	("8190203.pn.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/06/08 23:18
S42	2	("8190203").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/06/08 23:18
S43	27	("20050064853" "20050198233" "20060206487" "20060212442" "20060212444" "20070008984" "20070037615" "20070049198" "20070116316" "20070165875" "20070230727" "20080062939" "20080101279" "20080291891"	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:22

annem		"20100246788" "5784685" "6792091" "6937712" "7003515" "7027311" "7099370" "7120388" "7139585" "7599679" "7697899" "7764775" "7805210").PN.				
S44	9	((cd adj player) ipad) with audio near jack same (network internet wireless)	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:26
S45	55	("20010050991" "20010050993" "20010053228" "20020102005" "20040136522" "20040198436" "20040204185" "20050004796" "20050064915" "20050090295" "20050130697" "20050146227" "20050177365" "20050181826" "20050232448" "20050239434" "20060013410" "20060046656" "20060046778" "20060134959" "20060166705" "20060193479" "20070015486" "20070025561" "20070036384" "20070041582" "20070036384" "20070041582" "20070226384" "20070225035" "20070226384" "20070239849" "20070247794" "20080167092" "20080201138" "5604813" "5787180" "5825897" "5951141" "5978689" "5991637" "6061456" "6108415" "6415034" "6507650" "6873862" "6975984" "7155214" "7181233" "7187948" "7190797" "7251332" "7254420" "7292880" "7346176" "7395090" "7433715") PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:32
S46	550	((cd adj player) ipad mp3) and (server computer) with encod\$4 with (audio sound) and (earphone earcup headset headphone)	USPAT;	OR	ON	2013/06/10 12:19
S47	6	((cd adj player) ipad mp3) and (server computer) with encod\$4 with analog with digital with (audio sound) and (earphone earcup headset headphone) same acoustic	USPAT; USOCR	OR	ON	2013/06/10 12:21
S48	1	"8055361".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:24
S49	2	"20080167092"	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:27
S50	2	"20040156012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/06/10 12:30
S51	108	((cd adj player) ipad mp3) same (server computer) with encod\$4 with (audio sound) and (earphone earcup headset headphone) and internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:41
S52	41	(server computer) with encod\$4 with (analog digital) and ((cd adj player) ipad mp3) with (earphone earcup headset headphone) and internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:44
S53	0	"200700826612"	US-PGPUB;	OR	ON	2013/06/10

	The state of the s	· ·	USPAT; USOCR		1	12:57
S54	2	"20070082612"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/06/10 12:58
S55	12	((cd adj player) ipad mp3) with (earphone earcup headset headphone) same (convert\$3 switch\$3 chang\$3) with (analog digital) and acoustic with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 15:32
S56	0	((cd adj player) ipad mp3) and (earphone earcup headset headphone) same acoustic with aoutput\$4 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:15
S57	18	((cd adj player) ipad mp3) and (earphone earcup headset headphone) same acoustic with output\$3 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:15
S58	178	(earphone earcup headset headphone) same acoustic with output\$3 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:23
S59	5	(earphone earcup headset headphone) same (mp3 (cd near player)) and server with song\$1 and register\$3 with song\$1	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 21:24
S60	75	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal		OR	ON	2013/06/10 22:40
S61	1	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal and wifi		OR	ON	2013/06/10 23:02
S62	20	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal and (wifi bluetooth)		OR	ON	2013/06/10 23:02
S63	1	"8190203".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 22:19
S64	1	"8571544".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 22:21
S65	0	(earphone headset) same coustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet) and play\$4 with (song music) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:16
S66	5	(earphone headset) same acoustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet) and play\$4 with (song music) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:23
S67	25	(earphone headset) same acoustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:24
S68	1826	(earphone headset) same (play\$4 operat\$3) with (music song multimedia media audio) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:30

S69	418	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:31
S70	252	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and @ad<"20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:31
S71	119	(earphone headset) near3 (music song multimedia media audio) with (server internet) and @ad<"20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:36
S72	15	(earphone headset) near3 (music song) with (server internet) and @ad< "20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 13:27
S73	1	"8571544".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 12:49
S74	4	(earphone headset headphone) with wireless with receiv\$3 with (song audio music) same (server (base near station)) same internet.clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 12:54
S75	73	("20020122396" "20020132630" "20020147016" "20020160779" "20020160806" "20020164991" "20040085938" "4617674" "5115463" "5255307" "5345448" "5353331" "5410588" "5448569" "5469496" "5506887" "5519706" "5519759" "5537434" "5546411" "5579379" "5594718" "5610972" "5664005" "5715521" "5734699" "5745850" "578281" "5809415" "5818824" "5822313" "5845211" "5887256" "5896375" "5911120" "5913163" "5960344" "5999813" "6005856" "6009332" "6011975" "6021138" "6047177" "6052602" "6057427" "6058106" "6069588" "6078571" "6119006" "6151311" "6163546" "6175860" "6201962" "6295552" "6212395" "6226515" "6259685" "6275518" "6278699" "6295310" "6321089" "6396457" "6430395" "6466791" "6490446" "6510381" "6650871" "6665541" "6675015" "6714524").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/12/07
S76	483	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:12
S77	61	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station)) same internet	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:13
S78	21	("4659877" "4872160" "4872197" "4958341" "5029196" "5109405" "5341374" "5375068" "5410754" "5434913" "5490247" "5493568" "5608786" "5724355" "5726984" "5751706" "5802160" "5815562" "5946299" "5999525"	US-PGPUB; USPAT; USOCR	OR	ON	2013/12/07 13:20

		"6067350").PN.		1		
S79	38	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station)).clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:22
S80	3	"9049502".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 14:56
S81	2	"8571544".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:01
S82	2	"8190203".рп.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		OFF	2016/06/14 15:03
S83	1	14/695696	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:36
S86	23	digital near player and adapter and acoustic near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:59
S87	4	S86 AND ((H04W52/0229 OR H04R1/1091 OR H04R2201/103 OR H04R2225/55 OR H04R2420/07 OR H04R25/554 OR H04R3/00 OR H04R5/033 OR H04R5/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:02
S88	2	digital near player and acoustic near transducer\$1 and plugg\$2 and 381/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:03
S89	28	digital near player and acoustic near transducer\$1 and 381/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		OFF	2016/06/14 16:03

S90	6	("3894196" "4110583" "4490842" "5022486" "5138663" "5459290") PN	US-PGPUB; USPAT; USOCR	OR	OFF	2016/06/14 16:04
S91	5	("4432097" "4641361" "7215202" "7583809" "8150067").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/06/14 16:05
S92	13	S89 AND ((H04R5/0335 OR H04R2460/13 OR H04R5/033 OR H04R1/1016 OR H04R2201/107 OR H04R2499/11 OR H04R19/00 OR H04R2201/023 OR H04R2400/01 OR G02C11/06 OR G02C11/10).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:07
S93	19	digital near player and adapter and acoustic near transducer\$1 and wireless\$2 with network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:12
S94	139	("20060212442" "20060268830" "8478880" "8571544" "7003515" "7650168" "8335312" "20090063703" "20070008984" "20070297618" "20080298606" "5784685" "6671494" "7027311" "7099370" "7266390" "7734055" "20130039510" "7467021" "8401202" "20040107271" "20070037615" "20070165875" "20080031470" "20080076489" "6674864" "6937712" "7095455" "7139585" "7764775" "7805210" "8023663" "8027638" "8102836" "9049502" "20050198233" "20060206487" "20070253603" "6389463" "7120388" "7599679" "7680490" "7861312" "7962482" "8553865" "20050240296" "20070049198" "20080062939" "6792091" "7697899" "8295516" "8655420" "20050064853" "20100290642" "20150237439" "7337027" "7512414" "8190203" "8792945").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28
S95	0	S94 and (multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S96	63	(multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S97	10	(multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S98	0	(earphone headset) near3 (music song	US-PGPUB;	OR	ON	2016/07/28

		multimedia media audio) with (server internet) and @ad<"20080505".clm.	USPAT; EPO; JPO			10:11
S99	10	digital near player and adapter and acoustic near transducer\$1 and wireless\$2 with network.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:11
S100	23	digital near player and adapter and acoustic\$1 near transducer\$1 and wireless\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:23
S101	17	digital near player and adapter and acoustic\$1 near transducer\$1 and wireless\$2.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:29
S102	6	digital near player and adapter and (multiple plurality multi) with acoustic\$1 and transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:40
S103	2	adapter\$3 with digital near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S104	2	adapter\$3 same digital\$1 near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S105	29	adapter\$3 and digital\$1 near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S106	2	adapter\$3 and digital\$1 near player\$3 and acoustic\$1 near transducer\$1.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 11:01
S107	2	"8497535".pn.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/05/24 10:49

			EPO; JPO; DERWENT			
S108	2	"9497535".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:49
S109	2	"9438987".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:50
S110	3	"9049502".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:52
S111	3	"5571544".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:58
S112	2	"8571544".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:58
S113	2	"8190203".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 11:16
S114	3	"8655420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 11:18
S115	0	"90729959".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:34
S116	3	"9729959".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:34
S117	2	"9497535".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:35
S118	902	digital near player and adapter and acoustic near transducer\$1 dock\$ near station and elongat\$3 and bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/12 14:49

		transducer\$1 and dock\$ near station	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:51
S124	1	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and wireless and (recharg\$5 charg\$5) with batter\$3.clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:29
S125	1	S124 AND ((H04R2201/103 OR H04R2201/107 OR H04R25/554 OR H04R5/033).CPC.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:32
S126	1	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and wireless and (recharg\$5 charg\$5) with batter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:32
S127	1	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and (recharg\$5 charg\$5) with batter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:39
S128	7	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and (recharg\$5 charg\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:40
S129	2	S128 AND ((H04R1/02 OR H04R5/033 OR H04R2201/107 OR H04R25/554 OR H04R3/00 OR H04W4/80).CPC.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:42
S130	9	"49783294".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2018/03/19 10:42
S131	158	("20010011951" "20010026626" "20020001381" "20020012441" "20020068995" "20020115478" "20020149561" "20020183014" "20030108209" "20030118197" "20030119566" "20040013279" "20040105566" "20040131211" "20040132509" "20040189151" "20040207542" "20040259513" "20050046790" "20050176459" "20050184875" "20050176459" "20050207599" "20050185813" "20050232436" "20050237685" "200502344020" "20050237685" "20050286734" "20060079291" "20060093161" "20060120546" "20060121960" "20060159297" "20060158064" "20060227984" "20060286998" "20070003098" "20070015467" "20070036370" "20070080951" "20070081679"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/03/19 10:43

S134	0	microphone with utteranc\$3 with	US-PGPUB;	OR	OFF	2018/08/31
S133		"9986325".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT		OFF	2018/08/31 16:02
S132		"9986325",pn.	US-PGPUB; USPAT; EPO; JPO		ON	2018/08/31 15:04
		"20070249395" "20070263893" "20080106449" "20080157300" "20080129703" "20080139254" "20080129703" "20080139254" "20080129703" "20080247562" "20080239061" "20080247562" "20080267433" "2009002626" "2009028356" "20090129620" "20090226011" "20090226017" "20090226020" "20090245557" "20090288489" "20090290730" "20090288489" "20100056227" "20100150368" "201000782519" "20100178957" "20100184487" "201100246878" "20100254562" "20100310086" "20100311462" "201100329485" "201101311462" "20110237306" "20110170718" "20110280416" "20110281617" "20110293105" "20110281617" "20110293105" "20110301729" "20120008793" "2012008807" "20120182429" "20120244917" "20120237075" "20120244917" "20120289162" "20120253236" "20120182429" "2012028329" "20130169829" "20130311346" "20130324183" "2013032670" "20130324193" "20130336507" "20150078569" "20150086047" "20150086594" "20150086047" "20150181338" "20150086047" "20150181338" "20150086047" "20150181338" "20150086047" "20150181338" "20150086047" "201501869829" "20150086047" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "20150181338" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "2015018138" "20150286296" "20150186989" "20160286296" "20150186989" "20160286296" "20150186989" "20160286296" "201501				

		headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1 and @ad<"20090303"	USPAT; USOCR; EPO; JPO; DERWENT			16:10
S135	1	microphone with utteranc\$3 with headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:10
S136	1	microphone with utteranc\$3 and headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:12
S137	31	microphone with utteranc\$3 and headphone and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:12
S138	8	microphone with utteranc\$3 and headphone and earphone\$1.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:12
S139	7	S138 AND ((H04R2201/107 OR H04R5/033 OR H04R1/1008 OR H04R1/1016 OR H04R2460/13 OR H04M1/6066).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:14
S140	128	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc))	USPAT;	OR	OFF	2018/08/31 16:23
S141	32	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad<"20090303"	USPAT;	OR	OFF	2018/08/31 16:23
S142	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad<"20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S143	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S144	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S145	2807	microphone\$1 and headphone\$1 and (adhoc (ad adj hoc))	US-PGPUB; USPAT;	OR	OFF	2018/08/31 16:26

			USOCR; EPO; JPO; DERWENT		200	
S146	153	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad< "20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:27
S147	31	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and (acoutic\$1 transducer\$1) and @ad< "20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:28
S148	782	(earphone headset) with (recharg\$5 charg\$5) with (battery power) and @ad< "20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:49
S149	313	(earphone\$1 headset) with (recharg\$5 charg\$5) near3 battery with power\$3 and @ad<"20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:50
S150	44	S149 AND ((H04M1/0258 OR H04M1/04 OR H04M1/0262 OR H04M1/0202 OR G06F1/3203 OR H02J7/0054 OR H02J2007/0096 OR H02J7/32).CPC.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:52
S151	351136	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music sound song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with (acoustic transducer\$1) and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 22:46
S152	351041	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 22:48
S153	548914	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/06 22:48

		(music near player)) with stor\$3 with (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			22:49
S155	24	((cd near player) (audio near player) (music near player) mobile) with stor\$3 with (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and acoustic with transducer\$1 and (bluetooth adhoc (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/06 23:00
S156	2	(earphone\$1 headset headphone\$1 (head near phone\$1) (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and acoustic\$1 and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 07:51
S157	27	(earphone\$1 headset headphone\$1 (head near phone\$1) (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:05
S158	8	(earphone\$1 (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:17
S159	118	(earphone\$1 (ear near phone\$1)) with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and microphone and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:19
S160	26	(earphone\$1 (ear near phone\$1)) with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and microphone with (headphone headset) and @ad< "20080101"	USPAT; USOCR; FPRS;	OR	ON	2018/09/07 08:21
S161	1	(mobile wireless \$4phone terminal) with antenna\$1 with ((cd near player) (audio near player) (music near player) mp3) with (adhoc (ad adj hoc)) and (headphone headset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:10
S162	4	(mobile wireless \$4phone terminal) with antenna\$1 with ((cd near player)	US-PGPUB; USPAT;	OR	OFF	2018/09/07 09:12

		(audio near player) (music near player) mp3) with (adhoc (ad adj hoc) bluetooth (short near rang\$3)) and (headphone headset) with microphone and (adhoc (ad adj hoc) bluetooth (short near rang\$3)) and @ad<"20080303"	USOCR; EPO; JPO; DERWENT			
S163	1	(mobile wireless \$4phone terminal handset) with antenna\$1 with ((cd near player) (audio near player) (music near player) mp3) with (adhoc (ad adj hoc)) and (headphone headset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:23
S164	210	(mobile wireless \$4phone terminal handset) with ((cd near player) (audio near player) (music near player) mp3 music song\$1 multimedia) with (adhoc (ad adj hoc)) and (headphone headset)	USOCR;	OR	OFF	2018/09/07 09:26
S165	24	(mobile wireless \$4phone terminal handset) with ((cd near player) (audio near player) (music near player) mp3 music song\$1 multimedia) with (adhoc (ad adj hoc)) and (headphone headset) and @ad<"20080303"	USOCR;	OR	OFF	2018/09/07 09:26
S166	0	(server computer center\$1 central\$3) with (software firmware) with upgrat\$3 near8 (headphone headset) and @ad<"20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:32
S167	0	(server computer center\$1 central\$3) with upgrat\$3 near8 (headphone headset) and @ad< "20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:34
S168	15	(server computer center\$1 central\$3) with (upgrad\$3 updat\$3) near8 (headphone headset) and @ad< "20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:34
S169	0	(earphone\$1 (ear near phone\$1)) with curve\$3 with hang\$3 with bar\$1 and (headphone headset) and elongat\$3 and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:45
S170	0	(earphone\$1 (ear near phone\$1)) with curve\$3 with hang\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:46
S171	0	(earphone\$1 (ear near phone\$1)) and curve\$3 with hang\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2018/09/07 11:46

S172	3	(headphone headset) and USPAT; @ad< "20080101" USOCR; FPRS; EPO; JPC DERWEN			@ad<"20080101" USOCR;		(headphone headset) and US @ad<"20080101" US FF EB DI		OR	ON	2018/09/07 11:47
S173	72 curve\$3 with bar\$1 and (headphone headset) and @ad< "20080101"		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:47					
S174	282	(headphone headset) with elongat\$3 and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	7	ON	2018/09/07 12:07					
S175	(headphone headset) with elongat\$3 and transducer with acoustic and @ad< "20080101" (earphone\$1 (ear near phone\$1)) with elongat\$3 and @ad< "20080101"		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:08					
S176			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:13					
S177	31	(earphone\$1 (ear near phone\$1)) with elongat\$3 and transducer and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2018/09/07 12:13					
S178	B 7 S177 AND ((H04R5/033 OR H04R1/1008 OR H04R1/105),CPC.)		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:21					
S179	3	S165 AND ((H04W92/18 OR G06F3/167).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 12:23					
S180	2 "9438987".pn.		US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:54					
S181	2	"9497535".рп.	US-PGPUB; USPAT;	OR	OFF	2019/04/04 09:56					

			USOCR; EPO; JPO; DERWENT			
S182	3	"9729959".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:57
S183	2	"9986325".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:58
S184	6	"10206025".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:59
S185	23	(earphone earcup headset headphone earbud) with acoustic\$1 with transducer\$3 and (earphone earcup headset headphone earbud) with antenna\$1 with wireless and play\$3 with (audio music song\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 10:15
S186	17	(earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless with network	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 17:54
S187	27	(earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 17:55
S188	2668	(earphone earcup headset headphone earbud) and automati\$4 with play\$3 with (song\$1 music audio digital) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 18:00
S189	201	(earphone earcup headset headphone earbud) same automati\$4 with play\$3 with (song\$1 music audio digital) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 18:01

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BIB DATA SHEET

CONFIRMATION NO. 2160

16/182,927	FILING or 371(c) DATE 11/07/2018 RULE	CLASS 455	GROUP ART 2641	21112	TTORNEY DOCKET NO. 080188PCTUSCON9
APPLICANTS			*		
Koss Corporation	n, Milwaukee, WI;				
Michael Sagan, Steven R. Recka	nd, Princeton, WI; Fairfield, CA; amp, Crystal Lake, IL; ngstad, Deforest, WI; e, Sterling, IL;				
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Substitute for lo	rm 1449/PTO			Application Number 16	182,927 - GAU: 2641		
INFO	INFORMATION DISCLOSURE			Filing Date	11/07/2018		
	TEMENT BY			First Named Inventor	Michael J. Koss		
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Sheet	1	of	4	Attorney Docket Number	080188PCTUSCON9		

		Document Number	I.S. PATENT DO	γ	Pages, Columns, Lines, Where
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Examiner Signature	/KIET M DOAN/	Date Considered	04/05/2019
Signature	/KIET M DOAN/	Considered	04/05/2019

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.usclo.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached

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Substitute for lo				Application Number	16/182,927 - GAU: 2641		
INFO	INFORMATION DISCLOSURE			Filing Date	11/07/2018		
	TEMENT B			First Named Inventor	Michael J. Koss		
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Sheet	2	of	4	Attorney Docket Number	080188PCTUSCON9		

	-	Document Number	I.S. PATENT DO	7	Pages, Columns, Lines, Where
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		9.049.502 B2	06-02-2015	Pelland et al.	
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Examiner Signature	/KIET M DOAN/	Date Considered	04/05/2019
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicants unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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080188PCTUSCON9

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a veid OMB control number Complete if Known Substitute for form 1449/PTO - GAU: 2641 16/182,927 Application Number Filing Date 11/07/2018 INFORMATION DISCLOSURE First Named Inventor Michael J. Koss STATEMENT BY APPLICANT Art Unit (use as many sheets as necessary) Examiner Name Kiet Doan

Sheet

3

Attorney Docket Number

			N PATENT DO	OCUMEN 12		
Examiner Initials*	Cite No.	Foreign Patent Document Country Code [®] Number ⁴ -Kind Code [®] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
-		JP 2004-320597 (English Abstract)	11-11-2004	Matsushita Electric Ind. Co. Ltd.	Арреа	T
		WO 2006/047724 A2	05-04-2006	Logitech Europe S.A.		1
				Sony Ericsson Mobile		+
		WO 2007/139578 A1	12-06-2007	Communications AB		
		WO 2007/136620 A2	11-29-2007	Autonet Mobile Inc.		1
***************************************		WO 2008/033478 A1	03-20-2008	Reuss, et al.	·	†
		WO 2008/054985 A2	05-08-2008	Motorola inc.	 	+
		WO 2009/086555 A1	07-09-2009	Koss Corporation		+
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Examiner	/KIET M DOAN/	Date	04/05/2019
Signature	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Considered	04/05/2019

*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.M.D/

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Complete if Known		
Application Number 16/182	927 - GAU: 2641	
Filing Date	11/07/2018	
First Named Inventor	Michael J. Koss	
Ait Unit		
Examiner Name	Klet Doan	
Attorney Docket Number	080188PCTUSCON9	
	Application Number 16/182 Filing Date First Named Inventor Art Unit Examiner Name	

	NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
		Supplementary European Search Report for European Application No. 09731146.8 mailed June 10, 2011, 7 pages.			
		International Search Report for International Application No. PCT/US09/39754 mailed June 11, 2009, 2 pages.			
		International Preliminary Examination Report for International Application No. PCT/US09/39754 mailed October 28, 2010, 8 pages.			
		Written Opinion of the International Searching Authority for International Application No. PCT/US09/39754 mailed June 11, 2009, 5 pages.			
		IT REVIEW, "LTB 802.11 WiFi Headphones", http://itreview.belproject.com/item/1536 accessed on 03/13/2008 (4 pages).			

Examiner	WITTEN AS DORM!	Date	04/05/2019
Signature	/KIET M DOAN/	Considered	04/05/2019

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.M.D/

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This Applicant's unique classon designation intense (optional). Application is to pace a criest transition to length transparent and transparent an TO THIS ADDRESS. SENDTO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/26 U.S. Patent and Trademark Office Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed Department of Commerce **Electronic Petition Request** TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT 16182927 **Application Number** Filing Date 07-Nov-2018 Michael Koss First Named Inventor 080188PCTUSCON9 Attorney Docket Number Title of Invention SYSTEM WITH WIRELESS EARPHONES Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action This electronic Terminal Disclaimer is not being used for a Joint Research Agreement. Owner Percent Interest 100% **Koss Corporation** The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s) 8190203 8571544 9049502 9438987 9497535 9729959 9986325 10206025 8655420

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request. I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) 0 required for this terminal disclaimer has already been paid in the above-identified application. Applicant claims the following fee status: Small Entity Micro Entity Regular Undiscounted hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number 42747 A sole inventor A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application A joint inventor; all of whom are signing this request Signature /Mark G. Knedeisen/ Name Mark G. Knedeisen

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP \S 324.

Electronic Pater	nt App	lication Fee	e Transmit	tal	
Application Number:	161	16182927			
Filing Date:	07-1	Nov-2018			
Title of Invention:	SYS	TÉM WITH WIRELE	SS EARPHONES		
First Named Inventor/Applicant Name:	Mic	hael J. Koss			
Filer:	Mark G. Knedeisen/Amanda Keman				
Attorney Docket Number:	080	188PCTUSCON9			
Filed as Small Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description	- 1	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:			-		
STATUTORY OR TERMINAL DISCLAIMER		2814	1	160	160
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
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Doc Code: DISQ.E.FILE Document Description: Electronic Terminal Disclaimer – Approved
Application No.: 16182927
Filing Date: 07-Nov-2018
Applicant/Patent under Reexamination: Koss
Electronic Terminal Disclaimer filed on May 3, 2019
This patent is subject to a terminal disclaimer
DISAPPROVED
Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web
U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt					
EFS ID:	35907417				
Application Number:	16182927				
International Application Number:					
Confirmation Number:	2160				
Title of Invention:	SYSTEM WITH WIRELESS EARPHONES				
First Named Inventor/Applicant Name:	Michael J. Koss				
Customer Number:	26285				
Filer:	Mark G. Knedeisen/Amanda Kernan				
Filer Authorized By:	Mark G, Knedeisen				
Attorney Docket Number:	080188PCTUSCON9				
Receipt Date:	03-MAY-2019				
Filing Date:	07-NOV-2018				
Time Stamp:	10:57:18				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment	yes	
Payment Type	DA	
Payment was successfully received in RAM	\$160	
RAM confirmation Number	050319INTEFSW00008047021818	
Deposit Account	021818	
Authorized User	Amanda Kernan	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing	j :				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zīp	Pages (if appl.
			36656	7	
1)	Terminal Disclaimer-Filed (Electronic)	e Terminal-Disclaimer.pdf	m01mr17d6Ze61756303056dd23m63+13d1 66c318		
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characterized Post Card, as New Applicat	edgement Receipt evidences receipt I by the applicant, and including page described in MPEP 503. ions Under 35 U.S.C. 111	e counts, where applicable.	It serves as evidence	of receipt si	milar to
1.53(b)-(d) ar	cation is being filed and the application of MPEP 506), a Filing Receipt (37 CFF ement Receipt will establish the filing ge of an International Application und	1.54) will be issued in due date of the application.			

37 CFR 1.21 (Miscellaneous fees and charges)

the application.

an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: SYSTEM WITH WIRELESS EARPHONES

RESPONSE TO OFFICE ACTION

K&L Gates, LLP Pittsburgh, PA 15222 May 3, 2019

VIA EFS (WEB)

Mail Stop Amendment Commissioner for Patents Box 1450 Alexandria, VA 22313-1450

Dear Commissioner:

In response to the Office Action issued April 11, 2019 in connection with the abovecaptioned application, Applicant responds as follows, wherein:

a <u>Listing of the Claims</u> begins on page 2; and

Remarks begin on page 5.

Electronic A	cknowledgement Receipt
EFS ID:	35907797
Application Number:	16182927
International Application Number:	
Confirmation Number:	2160
Title of Invention:	SYSTEM WITH WIRELESS EARPHONES
First Named Inventor/Applicant Name:	Michael J. Koss
Customer Number:	26285
Filer:	Mark G. Knedeisen/Amanda Kernan
Filer Authorized By:	Mark G. Knedeisen
Attorney Docket Number:	080188PCTUSCON9
Receipt Date:	03-MAY-2019
Filing Date:	07-NOV-2018
Time Stamp:	11:09:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with	Payment	no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			128540		
1	Miscellaneous Incoming Letter	5-3-2019-Amendment- transmittal.pdf	3 Julius 99777 evel 0.5 a nin 1/2239 ev 63 SceSific ± 10 68aa	no	4
Warnings:	,		1		

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2	5-3-2019-Response-to-NFOA. pdf	wi2dfil27+o(c05)19/5HAn626+ei38e7015 iA6	yes	9	
	Multipart Description/PDF files in .	zip description			
	Document Description	Start 5		End 9	
	Applicant Arguments/Remarks Made in an Amendment				
	Claims	2	4		
	Amendment/Req. Reconsideration-After Non-Final Reject	i	1		
Warnings:					
Information:					
	Total Files Size (in bytes)	334	671		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	THE ONLIED STATESTATE	IN AND MADEMARK OFFICE				
Applicant	: Koss Corporation) Examiner: Doan, Kiet M.				
Inventor(s	s): Michael J. Koss, et al.) Art Unit: 2641				
Application	on No.: 16/182,927) Atty. Docket No. 080188PCTUSCON				
Filing Dat	e: November 7, 2018) Conf. No.: 2160				
Title: SY	STEM WITH WIRELESS EAR	PHONES				
<u>VIA EFS-We</u>	<u>eb</u>	May 3, 2019				
P.O. Box 14	ner for Patents					
	AMENDMENT	TRANSMITTAL				
1. Tran	nsmitted herewith is an amendment for	or this application.				
	STA	<u>TUS</u>				
2. App	licant is					
in accordant 54603.	A statement that this filing is by ce with the rule change effective Se					
-	other than a small entity.					

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EXTENSION OF TERM

NOTE:	filed at		tion, an extensi	ion of time is not i	equired	y and complete response h to permit filing and/or ent	
	and/or shorter course	entry of a Notice of App ned statutory period unless	eal or filing and the timely-filed been filed withir	for entry of an ad response placed th	ditional e applic	n of time is required to per amendment after expiratio cation in condition for allowa eriod, the period has ceased	n of the
NOTE:		7 CFR 1.645 for exter tions of time in reexami			roceed	dings, and 37 CFR 1.55	0(c) for
3. apply.	The p	roceedings herein a	re for a pater	nt application ar	nd the	provisions of 37 CFR	1.136
		<u>(c</u>	omplete (a) c	r (b), as applica	ble)		
(a)		Applicant petitions (fees: 37 CFR 1.1				CFR 1.136 nths checked below:	
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on	e month	s	200.00		\$	100.00	
☐ two	o month	s \$	600.00		\$	300.00	
☐ thr	ee mon	ths \$	1,400.00		\$	700.00	
☐ for	ır montl	ns \$	2,200.00		\$	1,100.00	
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		(check an	d complete th	ne next item, if a	pplica	ible)	
				is deducted f		y been secured and the total fee due for the	
				Extension fee	due w	rith this request \$	
			- 10	OR			
(b)			is being ma	de to provide fo	or the	required. However possibility that applica extension of time.	

FEE FOR CLAIMS

4. The fee for claims (37 CFR 1.16(b)-(d) has been calculated as shown below:

(Col	1)	(Co	1. 2)	(Col. 3)	SMALL	ENTITY		1.70	THAN A ENTITY
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TOTAL	14•	MINUS	20••	=0	X50=	SO		X100=	\$0
INDEP.	1.	MINUS	3•••	=0	X230=	\$0		X460=	\$0
FIRS	T PRES	ENTATION	OF MULT	TIPLE DEP. CLAIM	+410=	\$0		+820=	\$0
					TOTAL ADDIT, FEE	S0	OR	TOTAL ADDIT, FEE	so

- . If the entry in Col. 1 is less than entry in Col. 2, write ")" in Col. 3.
- .. If the "Highest No, Previously Paid for" IN THIS SPACE is less than 20, enter "20,"
- If the "Highest No. Previously Paid for" IN THIS SPACE is less than 3, enter "3." The "Highest No. Previously Paid for" (Total or indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

WARNING "After final rejection or action (§ 1.113) amendments may be made cancelling claims or complying with any requirement of form which has been made." 37 CFR § 1.116(a) (emphasis added).

Complete (c) or (d), as applicable)

(c)	\boxtimes	No additional fee for claims	is required.	
			OR	
(d)		Total additional fee for clain	ns required \$	
		FEE	PAYMENT	
5.		Attached is a check in the s	um of \$	
		Charge Account No	the sum of \$	

FEE DEFICIENCY

NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).

6. If any additional extension and/or fee is required, charge Account No.

02-1818.

AND/OR

 If any additional fee for claims is required, charge Account No. 02-1818.

> /Mark G. Knedeisen/ SIGNATURE OF ATTORNEY

Reg. No.: 42,747

Tel. No.: 412-355-6342

Customer No. 26285

Mark G. Knedeisen (type or print name of attorney)

K&L Gates LLP
P.O. Address
K&L Gates Center
210 Sixth Avenue
Pittsburgh, PA 15222-2613

Amendment Transmittal -page 4 of 4

REMARKS

In the Office Action, the claims were rejected for two reasons: (1) obviousness-type double patenting and (2) obviousness. Applicant traverses the rejections as follows.

The claims were rejected for obviousness-type double patenting over various claims of nine (9) patents owned by Koss Corporation, which is also the owner of the Subject Application. With prejudice or disclaimer, Applicant e-filed a terminal disclaimer, with the requisite filing fee, to overcome the obviousness-type double patenting rejections.

The pending claims, i.e., claims 2-15, were rejected in the Office Action as being obvious under § 103. In particular:

- Claims 2, 3, 7-10 and 12-13 were rejected over Borchardt (Pat. 5,410,735) in view of Yamashita (U.S. Pub. 2004/0063459);
- Claims 4-6 were rejected over Borchardt, Yamashita and in further view of Smith (U.S. Pub. 2009/0262205);
- Claim 11 was rejected over Borchardt, Yamashita and in further view of Goldman (U.S. Pub. 2011/0275323);
- Claim 14 was rejected over Borchardt, Yamashita and in further view of Terlizzi (US Pub. 2010/0022283); and
- Claim 15 was rejected over Borchardt, Yamashita and in further view of Borras (U.S. Pub. 2007/0281676).

Of pending claims 2-15, claim 2 is the sole independent claim. The obviousness rejections should be withdrawn for the following reasons.

First, independent claim 2 states that the claimed headphone assembly is configured to "transition automatically from playing digital audio content received wirelessly by the headphone assembly via a first wireless network to playing digital audio content received wirelessly by the headphone assembly via a second wireless network." Thus, the headphone assembly switches from the one wireless network (the "first" one) to another (the "second" one) automatically.

The Office Action rejected claim 2 as being obvious over Borchardt in view of Yamashita. The Office Action acknowledged that Borchardt is "silent on" a headphone assembly that switches from the one wireless network to another automatically, but cited Yamashita as "teaching" this claim limitation, citing paragraphs [0014] and [0076] of Yamashita.

Office Action at p. 6. The Office Action's explanation is that these paragraphs of Yamashita "teach headphone 20 automatic playing digital audio content received wirelessly from audio player 10." *Id.*

The Office Action is correct that Yamashita discloses a headphone that automatically plays digital audio content received wireless from an audio player, but that simplistic limitation is not recited in claim 2. Rather, claim 2 recites that the headphone assembly "transition[s] automatically from playing digital audio content received wirelessly by the headphone assembly via a *first* wireless network to playing digital audio content received wirelessly by the headphone assembly via a *second* wireless network." Yamashita's headphone does not transition automatically from one wireless network to another. Instead, Yamashita discloses (referring to Figure 1 thereof, shown below) a headphone 20 that is connected by a Bluetooth wireless link to an audio player 10. Yamashita at ¶ [0038].

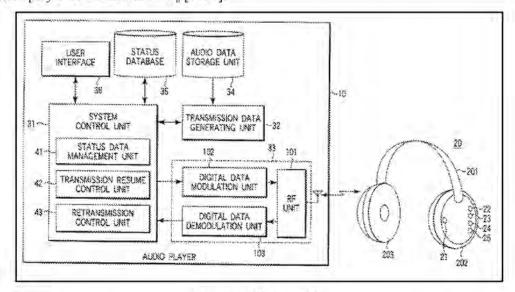


Figure 1 of Yamashita

As described in Yamashita, the Bluetooth standard adopts a "master-slave configuration," and in Yamashita the audio player 10 is the master and the headphones 20 are the slave. *Id.* at ¶ [0039]. That means that Yamashita's headphones 20 are always connected to the master audio player 10 over the *same Bluetooth communication link*, i.e., the master-slave link between the headphones and the audio player. As such, Yamashita's headphones 20 do not transition from one wireless network to another.

While Yamashita discloses that the headphones and audio player can resume playing after an interruption (id. at ¶ [0044]), the resumed wireless transmissions in Yamashita are still over the same Bluetooth connection between the master audio player and the slave headphones. Thus, Yamashita's headphones 20 do not transition from one wireless network to another automatically, as recited in claim 2.

"The key to supporting any rejection under 35 U.S.C.103 is the clear articulation of the reason(s) why the claimed invention would have been obvious." MPEP § 2143. Here, the Office Action did not provide any explanation for why Yamashita's headphones that reconnect on the same Bluetooth communication link makes obvious the limitation of claim 2 that the headphone assembly "transition[s] automatically from playing digital audio content received wirelessly by the headphone assembly via a first wireless network to playing digital audio content received wirelessly by the headphone assembly via a second wireless network." At least for this reason, claim 2 is nonobvious in view of the cited references and the rejection should be withdrawn. Claims 3-15 are nonobvious at least by virtue of their dependence upon nonobvious claim 2. See MPEP § 2143.03.

Second, for claims 4-6, 11 and 14, the obviousness rejections should be withdrawn for the additional reason that neither Smith, Goldman nor Terlizzi qualify as prior art for these claims. The Subject Application is subject to the pre-AIA first-to-invent provisions. See Office Action at p. 2. Under the pre-AIA first-to-invent provisions, only subject matter that is prior art under § 102 pre-AIA can be used to support an obviousness rejection under § 103. See MPEP § 2141.01 (citing Ex parte Andresen, 212 USPQ 100, 103 (BPAI 1981)). Here, the pending claims, including claims 4-6, 11 and 14, trace priority back to provisional patent application Serial No. 61/123,265, filed April 7, 2008 (hereinafter, "Provisional Application"). The Provisional Application, which is available on PAIR, discloses, by way of example, that the wireless earphone assembly:

- may comprise a microphone (element 104 of Figure 3 of the Provisional Application), where the processor processes utterances picked up by the microphone (Provisional Application at ¶ [0018]), for wireless transmission to a remote device (id. at ¶ [0032]), as recited in claim 4 of the Subject Application;
- may comprise earbuds (Provisional Application at ¶ [0010] and Figure 2B), as recited in *claim 5* of the Subject Application;

- may comprise an antenna, a wireless communication circuit, a processor and a
 rechargeable battery (Provisional Application at Figure 3 and related text at
 ¶¶ [0012] to [0019]), as recited in *claim 6* of the Subject Application;
- may comprise a docking station for charging the earphones (Provisional Application at ¶ [0014]), as recited in claim 11 of the Subject Application; and
- may receive firmware updates from a remote computer device (Provisional Application at ¶ [0019] and ¶ [0024]), as recited in *claim 14* of the Subject Application.

Therefore, claims 4-6, 11 and 14 have an effective filing date of April 7, 2008, i.e., the filing date of the Provisional Application. Smith, Goldman and Terlizzi, however, all have effective filing dates *after April 7, 2008*. Smith has a filing date of April 21, 2008; Goldman has a filing date of Jan. 20, 2009; and Terlizzi has a filing date of June 25, 2008. Therefore, neither Smith, Goldman nor Terlizzi qualify as prior art under pre-AIA § 102(a), (b) or (e). Therefore, the rejections of claims 4-6, 11 and 14 should be withdrawn for this additional reason.

CONCLUSION

In view of the foregoing remarks, Applicant respectfully submits that all of the claims presented in the present application are in condition for allowance. Applicant's present response should not in any way be taken as acquiescence to any of the specific assertions, statements, etc., presented in the Office Action not explicitly addressed herein, including the rejections of the dependent claims. Applicant reserves the right to address specifically all such assertions and statements in subsequent responses. Applicant also reserves the right to seek claims of a broader or different scope in a continuation application.

Applicant has made a diligent effort to properly respond to the Office Action and believe that the claims are in condition for allowance. If the Examiner has any remaining concerns, the Examiner is invited to contact the undersigned at the telephone number set forth below so that such concerns may be expeditiously addressed.

Respectfully submitted,

/Mark G. Knedeisen/ Mark G. Knedeisen

Date: May 3, 2019

Reg. No. 42,747

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email: mark.knedeisen@klgates.com

Listing of the Claims

The claims are not amended. The claim listing below is provided as a convenience.

- 1. (Canceled)
- 2. (Previously Presented) A wireless headphone assembly comprising.

first and second earphones, wherein each of the first and second earphones comprises an acoustic transducer;

an antenna for receiving wireless signals;

- a wireless communication circuit connected to the antenna, wherein the wireless communication circuit is for receiving and transmitting wireless signals to and from the wireless headphone assembly;
- a processor in communication with the wireless communication circuit; and a rechargeable battery for powering the wireless headphone assembly,
- wherein the headphone assembly is configured, with the processor, to transition automatically from playing digital audio content received wirelessly by the headphone assembly via a first wireless network to playing digital audio content received wirelessly by the headphone assembly via a second wireless network.
- 3. (Previously Presented) The wireless headphone assembly of claim 2, wherein the processor is further configured to, upon activation of a user-control of the headphone assembly, initiate transmission of a request to a remote network server.
- 4. (Previously Presented) The wireless headphone assembly of claim 3, wherein: the headphone assembly further comprises a microphone; and the processor is further configured to:

process audible utterances by a user of the headphone assembly picked up by the microphone in response to activation of the microphone by the user; and transmit a communication based on the audible utterances via the first or second wireless networks.

- (Previously Presented) The wireless headphone assembly of claim 2, wherein: the first earphone comprises a first earbud; and the second earphone comprises a second earbud.
- 6. (Previously Presented) The wireless headphone assembly of claim 5, wherein each of the first and second earphones comprises:
- an antenna;
- a wireless communication circuit connected to the at least the antenna;
- a processor in communication with the wireless communication circuit; and
- a rechargeable battery for powering the wireless headphone assembly.
- (Previously Presented) The wireless headphone assembly of claim 2, further comprising a headband connected between the first and second earphones.
- 8. (Previously Presented) The wireless headphone assembly of claim 7, wherein the first and second earphones comprise speaker elements housed in on-ear headphones.
- (Previously Presented) The wireless headphone assembly of claim 7, wherein the first and second earphones comprise speaker elements housed in over-ear headphones.
- 10. (Previously Presented) The wireless headphone assembly of claim 2, wherein each of the first and second earphones comprises:
- a hanger bar that sits upon an upper external curvature of a user's ear; and
- a body connected to the hanger bar, wherein the acoustic transducer is connected to the body.
- 11. (Previously Presented) The wireless headphone assembly of claim 2, further comprising a docking station to charge the rechargeable battery when the first and second earphones are connected to the docking station.
- 12. (Previously Presented) The wireless headphone assembly of claim 2, wherein the processor is configured to transition automatically from playing digital audio content received wirelessly by the headphone assembly via the first wireless network to playing digital audio

content received wirelessly by the headphone assembly via the second wireless network based on a signal strength level for the second wireless network.

- 13. (Previously Presented) The wireless headphone assembly of claim 12, wherein the processor is configured to transition automatically from playing digital audio content received wirelessly by the headphone assembly via the first wireless network to playing digital audio content received wirelessly by the headphone assembly via the second wireless network based on whether the signal strength level for the second wireless network is above a threshold level.
- 14. (Previously Presented) The wireless headphone assembly of claim 2, wherein the processor is further configured to receive firmware updates from a remote computer device.
- 15. (Previously Presented) The wireless headphone assembly of claim 2, further comprising a memory unit that stores network identifiers for the first and second wireless networks.

PTO/SB/06 (09-11)

Approved for use through 1/31/2014, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Urider Ilie Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number PATENT APPLICATION FEE DETERMINATION RECORD Application or Docket Number Filing Date 16/182,927 11/07/2018 To be Mailed Substitute for Form PTO-875 ENTITY: LARGE SMALL MICRO APPLICATION AS FILED - PART I (Column 1) (Column 2) FOR NUMBER FILED NUMBER EXTRA RATE (\$) FEE (\$) BASIC FEE N/A N/A N/A SEARCH FEE N/A N/A N/A (37 CFR 1.16(k). EXAMINATION FEE N/A N/A N/A (37 CFR 1.16(o), (p), or (q)) TOTAL CLAIMS x \$50 = minus 20 (37 CFB 1.16(i)) INDEPENDENT CLAIMS \$230 minus 3 (37 CFR 1_16(h)) If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 APPLICATION SIZE FEE (37 for small entity) for each additional 50 sheets or CFR 1.16(s)) fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) If the difference in column 1 is less than zero, enter "0" in column 2. TOTAL APPLICATION AS AMENDED - PART II (Column 1) (Column 3) (Column 2) CLAIMS HIGHEST REMAINING NUMBER 05/03/2019 PRESENT EXTRA RATE (\$) ADDITIONAL FEE (\$) PREVIOUSLY AFTER AMENDMENT PAID FOR - 14 ** 20 = 0x \$50 = Minus 0 Independent = 0. 1 Minus *** 3 x \$230 =0 Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(i)) TOTAL ADD'L FEE 0 (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST REMAINING NUMBER ADDITIONAL FEE (\$) PRESENT EXTRA RATE (\$) AFTER PREVIOUSLY AMENDMENT PAID FOR Total Minus x s0 = 37 CFR 1 18(0) Independent Minus ... x \$0 = Application Size Fee (37 CFR 1.16(s)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR TOTAL ADD'L FEE LIE * If the entry in column 1 is less than the entry in column 2, write "0" in column 3

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS: SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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/JASON B EADDY/

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NOTICE OF ALLOWANCE AND FEE(S) DUE

26285 7590 06/05/2019 K&L GATES LLP-Pittsburgh 210 SIXTH AVENUE PITTSBURGH, PA 15222-2613

EXA	MINER		
DOAN, KIET M			
ART UNIT	PAPER NUMBER		
2641			

DATE MAILED: 06/05/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/182.927	11/07/2018	Michael J. Koss	080188PCTUSCON9	2160

TITLE OF INVENTION: SYSTEM WITH WIRELESS EARPHONES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	09/05/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

Page 1 of 3

PART B - FEE(S) TRANSMITTAL

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16/182,927	11/07/2018	1	Michael J. Koss		080188PCTUSCON9	2160
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APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FI	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL.	\$500	\$0.00	\$0.00	\$500	09/05/2019
nonprovisional	SMALL.	SAM	50.00	.30.00	3300	Usidsi2d15
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PTOL-85 Part B (08-18) Approved for use through 01/31/2020

Page 2 of 3
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
16/182,927 11/07/2018		Michael J. Koss	080188PCTUSCON9	2160
26285 759	06/05/2019		EXAMI	NER
K&L GATES LLI	P-Pittsburgh		DOAN, K	IET M
210 SIXTH AVEN PITTSBURGH, PA			ART UNIT	PAPER NUMBER
			2641	
			DATE MAILED: 06/05/2019	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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The information provided by you in this form will be subject to the following routine uses:

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- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No. 16/182,927	Applicant(s) Koss et al.	
Notice of Allowability	Examiner KIET M DOAN	Art Unit 2641	AIA (FITF) Status No
The MAILING DATE of this communication. All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in L-85) or other appropriate commur NT RIGHTS. This application is sui	this application. If no nication will be maile	ot included d in due course. THIS
1. ☐ This communication is responsive to 05/03/2019.	10.00		
A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on		
An election was made by the applicant in response to restriction requirement and election have been incorp.		during the interview	on; the
3. ☑ The allowed claim(s) is/are 2-15. As a result of the al Highway program at a participating intellectual prope http://www.uspto.gov/patents/init_events/pph/inde	rty office for the corresponding app	lication. For more in	formation, please see
4. Acknowledgment is made of a claim for foreign priority	y under 35 U.S.C. § 119(a)-(d) or (f).	
Certified copies:			
a) All b) Some *c) None of the:			
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* Certified copies not received: :			
Applicant has THREE MONTHS FROM THE "MAILING I noted below. Failure to timely comply will result in ABANI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	DONMENT of this application.	areply complying w	ith the requirements
5. CORRECTED DRAWINGS (as "replacement sheets";) must be submitted.		
including changes required by the attached Example Paper No./Mail Date		n the Office action of	ıf
identifying indicia such as the application number (see 37 sheet, Replacement sheet(s) should be labeled as such in			nt (not the back) of each
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREM 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. 🗆 Examiner's	Amendment/Comm	ent
2. Information Disclosure Statements (PTO/SB/08),	6. ☑ Examiner's	Statement of Reason	ons for Allowance
Paper No./Mail Date	7. Other		
/KIET M DOAN/ Primary Examiner, Art Unit 2641			

Notice of Allowability

Part of Paper No./Mail Date 20190525

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-13) Art Unit: 2641

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 2-15 are allowance according to Applicant Remarks field on 05/03/2019 and Terminal Disclaimer filed/approved.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIET M DOAN whose telephone number is (571)272-7863. The examiner can normally be reached on M-F 9:30am-5:30pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KIET M DOAN/ Primary Examiner, Art Unit 2641

Issue C	assification

Application/Control No.	Applicant(s)/Patent Under Reexamination
16/182,927	Koss et al.
Examiner	Art Unit
KIET M DOAN	2641

CPC					
Symbol			_	Туре	Version
H04R	/ 1	/ /	041	F	2013-01-01
H04M	7 1	/ (254	Th.	2013-01-01
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H04W	/ 48	1 2	0		2013-01-01
H03G	3	/ (2		2013-01-01
H03K	17	/ 5	622	U	2013-01-01
H04R	7 1	/ (2	1	2013-01-01
H04H	/ 20	1 9	5	1	2013-01-01
H04L	/ 61	/ E	068	1	2013-01-01
H04W	1 4	/ 8	0	0.1	2018-02-01
H04R	/ 25	1 5	54	A	2013-01-01
H04R	/ 2201	1 1	03	A	2013-01-01
H04R	/ 2225	1 5	5	A	2013-01-01
H04R	/ 2420	1 0	7	A	2013-01-01
H04R	/ 2201	7 1	07	A	2013-01-01
H04W	/ 84	1 1	8	Α	2013-01-01
H03K	/ 2217	1 9	60785	A	2013-01-01
H04W	/ 84	1 -	2	A	2013-01-01

CPC Combination Sets					
Symbol		Туре	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	14	
/KIET M DOAN/ Primary Examiner, Art Unit 2641	25 May 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	2	2D

Issue Classification	Application/Control No. 16/182,927	Applicant(s)/Patent Under Reexamination Koss et al.
	Examiner KIET M DOAN	Art Unit 2641

INTERNATIONAL CLASSIF	CATION		
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NONE		Total Claims Allowed:		
(Assistant Examiner)	(Date)	14	14	
/KIET M DOAN/ Primary Examiner, Art Unit 2641	25 May 2019	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	2	2D	

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Issue Classification	Application/Control No. 16/182,927	Applicant(s)/Patent Under Reexamination Koss et al.
	Examiner KIET M DOAN	Art Unit 2641

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(Assistant Examiner)	(Date)	14		
/KIET M DOAN/ Primary Examiner, Art Unit 2641	25 May 2019	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	2	2D	
U.S. Patent and Trademark Office		• P	art of Paper No.: 2019052	

Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
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Examiner	Art Unit
KIET M DOAN	2641

CPC - Searched*			
Symbol	Date	Examiner	
H04R1/1016	04/05/2019	KD	
H04R1/1008	04/05/2019	KD	

CPC Combination Sets - Searched*				
Symbol	Date	Examiner		

US Classif	ication - Searched*		
Class	Subclass	Date	Examiner
381	74	04/05/2019	KD
	80 -	04/05/2019	KD
	311	04/05/2019	KD
455	556.1	04/05/2019	KD
	41.2	04/05/2019	KD
	343.2	04/05/2019	KD
	569.1	04/05/2019	KD
	553,1	04/05/2019	KD
	575.2	04/05/2019	KD
	412.2	04/05/2019	KD
345	8	05/25/2019	KD
	156	05/25/2019	KD
	7	05/25/2019	KD
	update search	05/25/2019	KD

^{*} See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.



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Examiner	Art Unit
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Search Notes		
Search Notes	Date	Examiner
inventor search	04/05/2019	KD
East search	04/05/2019	KD
(earphone earcup headset headphone earbud) with acoustic\$1 with transducer\$3 and (earphone earcup headset headphone earbud) with antenna\$1 with wireless and play\$3 with (audio music song\$1)	04/05/2019	KD
((H04R5/033 OR H04R1/1008 OR H04R1/105).CPC.)	04/05/2019	KD
earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless	04/05/2019	KD
((H04R1/1008 OR H04R1/1016 OR H04R1/105 OR H04R29/004 OR G10K2210/1081).CPC.)	04/05/2019	KD
earphone earcup headset headphone) and earbud and microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad<"20090202"	04/05/2019	KD
(earphone earcup headset headphone earbud) with acoustic\$1 and firmware with updat\$3 and @ad<"20090101"	04/05/2019	KD
(earphone earcup headset headphone earbud) and (earphone earcup headset headphone earbud) with automat\$4 with play\$3 and (plurality multiple second) near6 network.clm.	05/25/2019	KD
((H04W4/70 OR H04W4/80 OR H04W8/005 OR H04W88/02 OR G06F3/ 167 OR G06F17/28 OR G06F17/27 OR G06F1/1605 OR H04B5/02 OR H04L2012/2841 OR H04L2012/2849 OR H04L65/1069).CPC.)	05/25/2019	KD
update search	05/25/2019	KD

Interference Search				
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner	
704	4	04/05/2019	KD	
381	374	04/05/2019	KD	

/KIET M DOAN/ Primary Examiner, Art Unit 2641		
Filliary Examiner, Art Office 941		
J.S. Patent and Trademark Office	20.00.2	Part of Paper No.: 20190525

Index of Claims	Application/Control No. 16/182,927	Applicant(s)/Patent Under Reexamination Koss et al.
	Examiner KIET M DOAN	Art Unit

1	Rejected	(-	Cancelled	N	Non-Elected	A	Appeal
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	(earphone earcup headset headphone earbud) with acoustic\$1 and (earphone earcup headset headphone earbud) with automat\$4 with play\$3 and (plurality multiple second) near6 network	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 16:52
L2	195	(earphone earcup headset headphone earbud) and (earphone earcup headset headphone earbud) with automat\$4 with play\$3 and (plurality multiple second) near6 network	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 16:53
L3	22	(earphone earcup headset headphone earbud) and (earphone earcup headset headphone earbud) with automat\$4 with play\$3 and (plurality multiple second) near6 network.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 16:54
L4	108	("20010003712" "20020030649" "20020044152" "20020154070" "20030016253" "20030046401" "20030067536" "20040102957" "20040113867" "20040193413" "20040210852" "20040267527" "20050114140" "20050237296" "20050245292" "20050261890" "20060010368" "20060028400" "20060010368" "20060074624" "20060109237" "20060178085" "20060221266" "20070009125" "20070030174" "20070103388" "20070180979" "20070220108" "2008055194" "20080052643" "20080120141" "20080144854" "20080180640" "20080200774" "20080239080" "20090002640" "20090079839" "200900304410" "20090213071" "20090240488" "20090251409" "2010016497" "20100117930" "2010016497" "20100128626" "20100164990" "20100204981" "20100250231" "201002045585" "20100250231" "201100302137" "20100309295" "20110038405" "20120068914" "20110038405" "20120068914" "20120075177" "20120089392" "20120110456" "20120236025"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/25 16:59

	and the second s	"20120287284" "20130174205" "20130231937" "20130288753" "20130289971" "20130300649" "20140223299" "20140235169" "20140368412" "20150072672" "20150279354" "5005213" "5208449" "5594469" "5698834" "6084556" "6198462" "6313864" "6369952" "6408257" "6532446" "6538676" "6778906" "6965862" "7501995").PN. OR ("8184983" "8327295" "8838075" "8855719" "8862186" "8929954" "9122307" "9235262" "9294607" "9316827"				
S1	2	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobilw wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (ip internet digital\$1)	USPAT	OR	OFF	2011/09/19 20:35
S2	10	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (ip internet digital\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:35
S3	0	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with (mode state) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:42
S4	3	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with automat\$5 with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20;42
S5	11	(mobile wireless \$4phone) with out near1 (rang\$4 area) and automat\$5 with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:44
S6	872	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with (chang\$3 convert\$4 divert\$4) with network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:45
S7	145	(mobile wireless \$4phone) with out near1 (rang\$4 area) and (mobile wireless pda \$4phone) with (chang\$3 convert\$4 divert\$4) with network with (internet digital)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 20:45
S8	8	acoustic near transducer same (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and firmware	USPAT	OR	OFF	2011/09/19 21:30
S9	46	acoustic near transducer same (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and firmware	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/19 21:30
S10	2	"7697899",pn.	US-PGPUB;	OR	OFF	2011/09/19

	or or other designation of the state of the		USPAT; USOCR; EPO; JPO; DERWENT			21;33
S11	130	(mobile wireless) same acoustic near transducer and (convert\$3 chang\$3) with (analog rf frequency signal\$3) with (audio sound) and digital and (audio sound)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/20 00:33
S12	25	S11 and stream\$3 and server	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/09/20 00:33
S13	91	("20020069263" "20040169581" "2660662" "3651471" "3732536" "3742463" "3845391" "4025851" "4237449" "4425642" "4514725" "4642685" "4718106" "4750034" "4807031" "4840602" "4846693" "4923428" "4945412" "5085610" "5090936" "5108341" "5113437" "5136613" "5191615" "5301167" "5305348" "5319735" "5353352" "5412620" "5436941" "5442343" "5446756" "5450490" "5479442" "5499265" "5519779" "5539705" "5555258" "5574773" "5579124" "5604767" "5657379" "5663766" "5828325" "5848155" "5930369" "5937000" "5945932" "5960398" "5978413" "5999899" "6021432" "6022273" "6031914" "6035177" "6061793" "6125172" "6290566" "6298322" "6370666" "6389055" "6434253" "6438117" "6442283" "6449596" "6577881" "6584138" "6636551" "6650877" "6708214" "6737957" "6757300" "6765950" "6773344" "6782253" "6832093" "68805555" "6876623" "6892175" "6983051" "7031271" "7065342" "7158676").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/20
S14	187	mbsfn and sfn	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2012/02/29 11;27
S15	1	12/031462	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2012/02/29 11:29
S16	0	(mobile wireless \$4phone) with out near1 (rang\$4 area) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc))	USPAT	OR	OFF	2012/02/29 12:11
S17	1	(mobile wireless \$4phone) with out near1 (rang\$4 area) and transducer	US-PGPUB; USPAT;	OR	OFF	2012/02/29 12:11

	7	with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		***************************************	***************************************
S18	2	(mobile wireless \$4phone) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:15
S19	19	(mobile wireless \$4phone) and transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:16
S20	20	transducer with (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:17
S21	1003	(mobile wireless \$4phone) and (adhoc (ad adj hoc)) and (signal\$3 rf frequency) with threshold and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:20
S22	8	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and "455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 12:21
S23	38203	(mobile wireless \$4phone) and transducer wand (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3	USPAT	OR	OFF	2012/02/29 13:54
S24	258	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 13:54
S25	21	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 13:55
S26	25	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3	US-PGPUB; USPAT;	OR.	OFF	2012/02/29 13:59

	***************************************	divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and "455"/\$.ccls.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			***************************************
S27	9	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and earphone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 14:00
S28	1	(mobile wireless \$4phone) and transducer and (convert\$3 chang\$3 divert\$3) with (sound audio) and (adhoc (ad adj hoc)) and threshold and rang\$3 and earphone.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/29 14:03
S29	2	"8190203".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2013/03/21 23:39
S30	27	("20050064853" "20050198233" "20060206487" "20060212442" "20060212444" "20070008984" "20070037615" "20070049198" "20070116316" "20070165875" "20070230727" "20080062939" "20080101279" "20080291891" "20100246788" "5784685" "6792091" "6937712" "7003515" "7027311" "7099370" "7120388" "7139585" "7599679" "7697899" "7764775" "7805210").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:23
S31	0	(server computer) with internet and stream\$4 near audio near server and (headset earphone\$1 bluetooth) with (ap (access near point)) with internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:34
S32	41	(server computer) with internet and	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:35
S33	2287	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and register\$3and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:52
S34	4	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and register\$3 and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:56
S35	4	host near server and internet and (stream\$4 near audio) and server and (headset earphone\$1 bluetooth) with (ap (access near point)) and approva\$4 with (song media)	US-PGPUB; USPAT; USOCR	OR	ON	2013/03/29 14:57

S36	56	(earphone headset) with receiv\$3 with (song audio music) and convert\$4 near digital same analog and acoustic\$1 with transducer\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 18:50
S37	769	(earphone headset) and convert\$4 near3 digital with analog and acoustic\$1 with transducer\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:11
S38	464	S37 and @ad< "20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:13
S39	30	S37 and @ad< "20080101" and "455"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/03/29 19:15
S40	0	("8190203.pn.").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2013/06/08 23:17
S41	0	("8190203.pn.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/06/08 23:18
S42	2	("8190203").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/06/08 23:18
S43	27	("20050064853" "20050198233" "20060206487" "20060212442" "20060212444" "20070008984" "20070037615" "20070049198" "20070116316" "20070165875" "20070230727" "20080062939" "20080101279" "20080291891" "20100246788" "5784685" "6792091" "6937712" "7003515" "7027311" "7099370" "7120388" "7139585" "7599679" "7697899" "7764775" "7805210") PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:22
S44	9	((cd adj player) ipad) with audio near jack same (network internet wireless)	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:26
S45	55	("20010050991" "20010050993" "20010053228" "20020102005" "20040136522" "20040198436" "20040204185" "20050004796" "20050064915" "20050090295" "20050130697" "20050146227" "20050177365" "20050181826" "20050232448" "20050239434" "20060013410" "20060046656" "20060046778" "20060134959" "20060166705" "20060193479" "20070015486" "20070025561" "20070082612" "20070225035" "20070226384" "20070239849"	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/08 23:32

		"20070247794" "20080167092" "20080201138" "5604813" "5787180" "5825897" "5951141" "5978689" "5991637" "6061456" "6108415" "6415034" "6507650" "6873862" "6975984" "7155214" "7181233" "7187948" "7190797" "7251332" "7254420" "7292880" "7346176" "7395090" "7433715").PN.				
S46	550	((cd adj player) ipad mp3) and (server computer) with encod\$4 with (audio sound) and (earphone earcup headset headphone)	USPAT;	OR	ON	2013/06/10 12:19
S47	6	((cd adj player) ipad mp3) and (server computer) with encod\$4 with analog with digital with (audio sound) and (earphone earcup headset headphone) same acoustic	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:21
S48	1	"8055361".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:24
S49	2	"20080167092"	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:27
S50	2	"20040156012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/06/10 12:30
S51	108	((cd adj player) ipad mp3) same (server computer) with encod\$4 with (audio sound) and (earphone earcup headset headphone) and internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:41
S52	41	(server computer) with encod\$4 with (analog digital) and ((cd adj player) ipad mp3) with (earphone earcup headset headphone) and internet	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:44
S53	0	"200700826612"	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 12:57
S54	2	"20070082612"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/06/10 12:58
S55	12	((cd adj player) ipad mp3) with (earphone earcup headset headphone) same (convert\$3 switch\$3 chang\$3) with (analog digital) and acoustic with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 15:32
S56	0	((cd adj player) ipad mp3) and (earphone earcup headset headphone) same acoustic with aoutput\$4 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:15
S57	18	((cd adj player) ipad mp3) and (earphone earcup headset headphone) same acoustic with output\$3 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:15
S58	178	(earphone earcup headset headphone) same acoustic with output\$3 with analog	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/10 16:23

		same (mp3 (cd near player)) and server with song\$1 and register\$3 with song\$1	USPAT; USOCR			21:24
S60	75	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal		OR	ON	2013/06/10 22:40
S61	1	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal and wifi		OR	ON	2013/06/10 23:02
S62	20	(earphone earcup headset headphone) same (mp3 (cd near player)) same ear near canal and (wifi bluetooth)		OR	ON	2013/06/10 23:02
S63	1	"8190203".рп.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 22:19
S64	1	"8571544".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 22:21
S65	0	(earphone headset) same coustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet) and play\$4 with (song music) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:16
S66	5	(earphone headset) same acoustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet) and play\$4 with (song music) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:23
S67	25	(earphone headset) same acoustic\$1 with transducer\$3 and (earphone headset) with wireless with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/29 23:24
S68	1826	(earphone headset) same (play\$4 operat\$3) with (music song multimedia media audio) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:30
S69	418	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:31
S70	252	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and @ad<"20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:31
S71	119	(earphone headset) near3 (music song multimedia media audio) with (server internet) and @ad<"20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 12:36
S72	15	(earphone headset) near3 (music song) with (server internet) and @ad<"20080505"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/30 13:27
S73	1	"8571544".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 12:49
S74	4	(earphone headset headphone) with wireless with receiv\$3 with (song audio music) same (server (base near station)) same internet.clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 12:54
S75	73	("20020122396" "20020132630"	US-PGPUB;	OR	ON	2013/12/07

		"20020147016" "20020160779" "20020160806" "20020164991" "20040085938" "4617674" "5115463" "5255307" "5345448" "5353331" "5410588" "5448569" "5469496" "5506887" "5519706" "5519759" "5537434" "5546411" "5579379" "5594718" "5610972" "5664005" "5715521" "5734699" "5745850" "5758281" "5809415" "5818824" "5822313" "5845211" "5887256" "5896375" "5911120" "5913163" "5960344" "5999813" "6005856" "6009332" "6011975" "6021138" "6047177" "6052602" "6055427" "6058106" "6069588" "6078571" "6119006" "6151311" "6163546" "6175860" "6201962" "6295310" "6321089" "6396457" "6430395" "6466791" "6490446" "6510381" "6529732" "6628632" "6640098" "6650871" "6665541" "6675015" "6714524").PN.	USPAT; USOCR			13:00
S76	483	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:12
S77	61	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station)) same internet	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:13
S78	21	("4659877" "4872160" "4872197" "4958341" "5029196" "5109405" "5341374" "5375068" "5410754" "5434913" "5490247" "5493568" "5608786" "5724355" "5726984" "5751706" "5802160" "5815562" "5946299" "5999525" "6067350").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/12/07 13:20
S79	38	(earphone headset headphone) with receiv\$3 with (song audio music) same (server (base near station)).clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/12/07 13:22
S80	3	"9049502".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 14:56
S81	2	"8571544".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:01
S82	2	"8190203".pn.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2016/06/14 15:03

			EPO; JPO; DERWENT; IBM_TDB		2222	
S83	1	14/695696	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:36
S86	23	digital near player and adapter and acoustic near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 15:59
S87	4	S86 AND ((H04W52/0229 OR H04R1/1091 OR H04R2201/103 OR H04R2225/55 OR H04R2420/07 OR H04R25/554 OR H04R3/00 OR H04R5/033 OR H04R5/04).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:02
S88	2	digital near player and acoustic near transducer\$1 and plugg\$2 and 381/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:03
S89	28	digital near player and acoustic near transducer\$1 and 381/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:03
S90	6	("3894196" "4110583" "4490842" "5022486" "5138663" "5459290"),PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/06/14 16:04
S91	5	("4432097" "4641361" "7215202" "7583809" "8150067"),PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/06/14 16:05
S92	13	S89 AND ((H04R5/0335 OR H04R2460/13 OR H04R5/033 OR H04R1/1016 OR H04R2201/107 OR H04R2499/11 OR H04R19/00 OR H04R2201/023 OR H04R2400/01 OR G02C11/06 OR G02C11/10).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:07
S93	19	digital near player and adapter and acoustic near transducer\$1 and wireless\$2 with network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/14 16:12
S94	139	("20060212442" "20060268830" "8478880" "8571544" "7003515"	US-PGPUB; USPAT;	OR	OFF	2016/07/28 10:00

		"7650168" "8335312" "20090063703" "20070008984" "20070297618" "20080298606" "5784685" "6671494" "7027311" "7099370" "7266390" "7734055" "20130039510" "7467021" "8401202" "20040107271" "20070037615" "20070165875" "20080031470" "20080076489" "6674864" "6937712" "7095455" "7139585" "7764775" "7805210" "8023663" "8027638" "8102836" "9049502" "20050198233" "20060206487" "20070253603" "6389463" "7120388" "7599679" "7680490" "7861312" "7962482" "8553865" "20050240296" "20070049198" "20080062939" "6792091" "7697899" "8295516" "8655420" "20050064853" "20100290642" "20150237439" "7337027" "7512414" "8190203" "8792945").PN.	USOCR; EPO; JPO; DERWENT			
S95	0	S94 and (multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S96	63	(multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S97	10	(multiple plurality multi) with acoustic near1 transducer\$1 and adapter\$3.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/28 10:02
S98	0	(earphone headset) near3 (music song multimedia media audio) with (server internet) and @ad<"20080505".clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/07/28 10:11
S99	10	digital near player and adapter and acoustic near transducer\$1 and wireless\$2 with network.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:11
S100	23	digital near player and adapter and acoustic\$1 near transducer\$1 and wireless\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:23
S101	17	digital near player and adapter and acoustic\$1 near transducer\$1 and wireless\$2.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:29

S102	6	digital near player and adapter and (multiple plurality multi) with acoustic\$1 and transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:40
S103	2	adapter\$3 with digital near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S104	2	adapter\$3 same digital\$1 near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S105	29	adapter\$3 and digital\$1 near player\$3 and acoustic\$1 near transducer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 10:42
S106	2	adapter\$3 and digital\$1 near player\$3 and acoustic\$1 near transducer\$1.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/28 11:01
S107	2	"8497535".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:49
S108	2	"9497535".pn,	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:49
S109	2	"9438987".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:50
S110	3	"9049502".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:52
S111	3	"5571544".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:58

S112	2	"8571544".pn,	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 10:58
S113	2	"8190203".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 11:16
S114	3	"8655420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2017/05/24 11:18
S115	0	"90729959",pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:34
S116	3	"9729959".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:34
S117	2	"9497535".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/02/12 13:35
S118	902	digital near player and adapter and acoustic near transducer\$1 dock\$ near station and elongat\$3 and bluetooth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	OFF	2018/02/12 14:49
S123	2	digital near player and acoustic\$1 with transducer\$1 and dock\$ near station	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/02/12 14:51
S124	1	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and wireless and (recharg\$5 charg\$5) with batter\$3.clm.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:29
S125	1	S124 AND ((H04R2201/103 OR H04R2201/107 OR H04R25/554 OR H04R5/033).CPC.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:32
S126	1	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and wireless and (recharg\$5 charg\$5) with batter\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:32
S127	1	(earphone headset) with (play\$4	US-PGPUB;	OR	ON	2018/03/19

		operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and (recharg\$5 charg\$5) with batter\$3	USPAT; EPO; JPO			10:39
S128	7	(earphone headset) with (play\$4 operat\$3) with (music song multimedia media audio) with (server internet) and transduc\$3 and elongat\$3 and (recharg\$5 charg\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:40
S129	2	S128 AND ((H04R1/02 OR H04R5/033 OR H04R2201/107 OR H04R25/554 OR H04R3/00 OR H04W4/80).CPC.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/03/19 10:42
S130	9	"49783294".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2018/03/19 10:42
S131	158	("20010011951" "20010026626" "20020001381" "20020012441" "20020068995" "20020115478" "20020149561" "20020183014" "20030108209" "20030118197" "20030119566" "20040013279" "20040105566" "20040131211" "20040132509" "20040189151" "20040207542" "20040259513" "20050046790" "20050088530" "20050160270" "20050176459" "2005027599" "20050176459" "20050244020" "20050237685" "20050244020" "20050275714" "20060093161" "20060120546" "20060121960" "20060140439" "20060121960" "20060159297" "20060158064" "20060159297" "20060158064" "2007003098" "20070015467" "20070036370" "20070080951" "20070036370" "20070098200" "20070160253" "20070249395" "20070263893" "20080129703" "20080227490" "20080226020" "20080227490" "20080226020" "20090226017" "20090226011" "20090226017" "20090228356" "2009002626" "2009028356" "20090129620" "20090288489" "20090226017" "20090228020" "20090245557" "20090228020" "20090245557" "20100150368" "20100172519" "20100246878" "20100328033" "20100329485" "20110143819" "20110158425" "20110143819" "20110237306" "201102546616" "20110267551").PN. OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/03/19

		("20110280416" "20110281617" "20110293105" "20110301729" "20120008793" "20120008807" "20120010735" "20120082329" "20120130660" "20120133213" "20120182429" "20120244917" "20120249223" "20120253236" "20120289162" "20120300956" "20130100596" "20130111346" "201303166929" "201303169352" "201303169829" "20130236043" "201303242809" "20130336507" "20130324193" "20130336507" "2014003641" "20140342783" "2014003641" "20150054779" "20150065057" "20150070083" "20150078569" "20150086047" "20150141088" "20150288153" "20150256946" "20160007109" "20160086594" "20160205233" "20160261299" "20160286296" "2045404" "5295193" "5323468" "6380923" "6456721" "6463157" "6950126" "7231235" "7437122" "7442164" "7555136" "8521239" "8526646" "8886263" "8918149" "9020170") .PN.				
S132	1	"9986325".pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/08/31 15:04
S133	2	"9986325".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:02
S134	0	microphone with utteranc\$3 with headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1 and @ad<"20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:10
S135	1	microphone with utteranc\$3 with headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:10
S136	1	microphone with utteranc\$3 and headphone and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:12
S137	31	microphone with utteranc\$3 and headphone and earphone\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:12
S138	8	microphone with utteranc\$3 and headphone and earphone\$1.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2018/08/31 16:12

			DERWENT	Continuent		
S139	7	S138 AND ((H04R2201/107 OR H04R5/033 OR H04R1/1008 OR H04R1/1016 OR H04R2460/13 OR H04M1/6066).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:14
S140	128	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc))	USPAT;	OR	OFF	2018/08/31 16:23
S141	32	(mobile wireless \$4phone) with (adhoc (ad adj hoc)) with (signal\$3 rf frequency) with threshold and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad< "20090303"	USPAT;	OR	OFF	2018/08/31 16:23
S142	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad<"20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S143	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S144	0	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) with acoutic\$1 and (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:25
S145	2807	microphone\$1 and headphone\$1 and (adhoc (ad adj hoc))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:26
S146	153	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and @ad<"20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:27
S147	31	microphone\$1 and headphone\$1 and (earphone\$1 headset headphone) and (mobile wireless pda \$4phone) with (adhoc (ad adj hoc)) and (acoutic\$1 transducer\$1) and @ad<"20090303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/08/31 16:28
S148	782	(earphone headset) with (recharg\$5 charg\$5) with (battery power) and @ad<"20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:49
S149	313	(earphone\$1 headset) with (recharg\$5 charg\$5) near3 battery with power\$3 and @ad< "20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:50
S150	44	S149 AND ((H04M1/0258 OR H04M1/04 OR H04M1/0262 OR H04M1/0202 OR G06F1/3203 OR H02J7/0054 OR H02J2007/0096 OR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 16:52

		H02J7/32).CPC.)				
S151	351136	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music sound song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with (acoustic transducer\$1) and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad< "20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 22:46
S152	351041	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2018/09/06 22:48
S153	548914	((cd near player) (audio near player) (music near player) mobile) with stor\$3 (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/06 22:48
S154	8	((cd near player) (audio near player) (music near player)) with stor\$3 with (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and (earphone\$1 headset headphone\$1 (head near phone\$1)) with acoustic with transducer\$1 and ((cd near player) (audio near player) (music near player) mobile) with (bluetooth adhoc (short near rang\$3) (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB		ON	2018/09/06 22:49
S155	24	((cd near player) (audio near player) (music near player) mobile) with stor\$3 with (audio music song\$1) and (earphone\$1 headset headphone\$1 (head near phone\$1)) and acoustic with transducer\$1 and (bluetooth adhoc (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/06 23:00
S156	2	(earphone\$1 headset headphone\$1 (head near phone\$1) (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2018/09/07 07:51

		(bluetooth adhoc (ad adj hoc)) and acoustic\$1 and @ad<"20080101"	DERWENT; IBM_TDB			
S157	27	(earphone\$1 headset headphone\$1 (head near phone\$1) (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:05
S158	8	(earphone\$1 (ear near phone\$1)) with antenna with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:17
S159	118	(earphone\$1 (ear near phone\$1)) with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and microphone and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 08:19
S160	26	(earphone\$1 (ear near phone\$1)) with ((cd near player) (audio near player) (music near player) mobile mp3) with (bluetooth adhoc (ad adj hoc)) and microphone with (headphone headset) and @ad<"20080101"	USPAT; USOCR; FPRS;	OR	ON	2018/09/07 08:21
S161	1	(mobile wireless \$4phone terminal) with antenna\$1 with ((cd near player) (audio near player) (music near player) mp3) with (adhoc (ad adj hoc)) and (headphone headset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:10
S162	4	(mobile wireless \$4phone terminal) with antenna\$1 with ((cd near player) (audio near player) (music near player) mp3) with (adhoc (ad adj hoc) bluetooth (short near rang\$3)) and (headphone headset) with microphone and (adhoc (ad adj hoc) bluetooth (short near rang\$3)) and @ad<"20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:12
S163	1	(mobile wireless \$4phone terminal handset) with antenna\$1 with ((cd near player) (audio near player) (music near player) mp3) with (adhoc (ad adj hoc)) and (headphone headset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:23
S164	210	(mobile wireless \$4phone terminal handset) with ((cd near player) (audio near player) (music near player) mp3 music song\$1 multimedia) with (adhoc (ad adj hoc)) and (headphone headset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 09:26
S165	24	music song\$1 multimedia) with (adhoc	USOCR;	OR	OFF	2018/09/07 09:26

umumu		headset) and @ad< "20080303"		L		
S166	0	(server computer center\$1 central\$3) with (software firmware) with upgrat\$3 near8 (headphone headset) and @ad< "20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:32
S167	О	(server computer center\$1 central\$3) with upgrat\$3 near8 (headphone headset) and @ad< "20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:34
S168	15	(server computer center\$1 central\$3) with (upgrad\$3 updat\$3) near8 (headphone headset) and @ad<"20080303"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 11:34
S169	O	(earphone\$1 (ear near phone\$1)) with curve\$3 with hang\$3 with bar\$1 and (headphone headset) and elongat\$3 and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:45
S170	0	(earphone\$1 (ear near phone\$1)) with curve\$3 with hang\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:46
S171	0	(earphone\$1 (ear near phone\$1)) and curve\$3 with hang\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:46
S172	3	curve\$3 with hang\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:47
S173	72	curve\$3 with bar\$1 and (headphone headset) and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 11:47
S174	282	(headphone headset) with elongat\$3 and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:07
S175	19	(headphone headset) with elongat\$3 and transducer with acoustic and	US-PGPUB; USPAT;	OR	ON	2018/09/07 12:08

		@ad<"20080101"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			***************************************
S176	160	(earphone\$1 (ear near phone\$1)) with elongat\$3 and @ad< "20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:13
S177	31	(earphone\$1 (ear near phone\$1)) with elongat\$3 and transducer and @ad<"20080101"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:13
S178	7	S177 AND ((H04R5/033 OR H04R1/1008 OR H04R1/105).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/09/07 12:21
S179	3	S165 AND ((H04W92/18 OR G06F3/167).CPC.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2018/09/07 12:23
S180	2	"9438987".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:54
S181	2	"9497535".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:56
S182	3	"9729959".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:57
S183	2	"9986325".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:58
S184	6	"10206025".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/04/04 09:59
S185	23	(earphone earcup headset headphone earbud) with acoustic\$1 with transducer\$3 and (earphone earcup headset headphone earbud) with	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 10:15

		antenna\$1 with wireless and play\$3 with (audio music song\$1)				
S186	17	(earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless with network	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 17:54
S188	2668	(earphone earcup headset headphone earbud) and automati\$4 with play\$3 with (song\$1 music audio digital) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 18:00
S189	201	(earphone earcup headset headphone earbud) same automati\$4 with play\$3 with (song\$1 music audio digital) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/04 18:01
S190	24	(earphone earcup headset headphone earbud) same automati\$4 with play\$3 with (song\$1 music audio digital) and wireless and @ad< "20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:07
S191	11	S190 AND ((H04R5/033 OR H04R1/1016 OR H04L2012/2841 OR H04M1/6066 OR H04M1/7253 OR H04N1/00307).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:10
S192	8978	(earphone earcup headset headphone earbud) same microphone\$1 and (voice speak\$3 utteran\$3) with control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:51
S193	3583	(earphone earcup headset headphone earbud) same microphone\$1 same (voice speak\$3 utteran\$3) with control\$3 and @ad<"20090202"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 10:52
S194	3656	(earphone earcup headset headphone earbud) with microphone\$1 same (voice speak\$3 utteran\$3) with control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:52
S195	564	(earphone earcup headset headphone earbud) with microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:53
S196	140	S195 and 455/\$.ccls:	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 10:53
S197	41	(earphone earcup headset headphone) and earbud and microphone\$1 with (voice speak\$3 utteran\$3) near4 control\$3 and @ad< "20090202"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/05 11:34

		and hanger near bar and @ad< "20090202"	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:06
S199	34	(earphone earcup headset headphone earbud) with acoustic\$1 and firmware with updat\$3 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 12:45
S200	27	(earphone earcup headset headphone earbud) with acoustic\$1 and stor\$3 with network with identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:05
S201	2965976	(earphone earcup headset headphone earbud) and memory with stor\$3 with network neae2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:07
S202	50	(earphone earcup headset headphone earbud) and memory with stor\$3 with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:10
S203	8	(earphone earcup headset headphone earbud) and memory with stor\$3 with (plurality multiple multi) with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:11
S204	21	(earphone earcup headset headphone earbud) and (memory stor\$3) with (plurality multiple multi) with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:13
S205	350	(earphone earcup headset headphone earbud) and stor\$3 with network near2 identi\$4 and @ad<"20090101"	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:25
S206	132	(earphone earcup headset headphone earbud) and stor\$3 with network near2 identi\$4 and @ad<"20090101" and 455/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:25
S207	0	(earphone earcup headset headphone earbud) same stor\$3 with network near2 identi\$4 and @ad<"20090101" and 455/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 13:27
S208	27	(earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and wireless	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 14:05
S209	9	S208 AND ((H04R1/1008 OR H04R1/1016 OR H04R1/105 OR H04R29/004 OR G10K2210/1081).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/04/05 14:06
S210	7	(earphone earcup headset headphone earbud) with acoustic\$1 and automat\$4 with play\$3 with (song music audio) and (plurality multiple second) near6 network	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 10:38
S211	4	S210 AND ((H04H20/83 OR G06F3/167 OR H04R2225/55).CPC.)	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 11:13
S212	0	(earphone earcup headset headphone earbud) with acoustic\$1 and (earphone earcup headset headphone	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/25 11:14

EAST Search History

	earbud) with automat\$4 with play\$3	1	
200	and (plurality multiple second) near6		100
	network.clm.		

5/ 25/ 2019 5:01:24 PM

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PART B - FEE(S) TRANSMITTAL

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APPLN TYPE	ENTITY STATUS	ISSUE PEE DUE	PUBLICATION FEE DU	PREV. PAID ISSUE FE	E TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	09/05/2019
EXA	MINER	ART UNIT	CLASS-SUBCLASS	1		
DOAN,	KIET M	2641	455-428000			
CFR 1.363). Change of corresp Address form PTO/S "Fee Address" into SB/47; Rev 03-09 or Number is required.	dication (or "Fee Address" more recent) attached. Us	ige of Correspondence Indication form PTO/ e of a Customer	(1) The names of up or agents OR, alterna (2) The name of a sin registered attorney or	gle firm (having as a mer agent) and the names of torneys or agents. If no no e printed.	nher a up to 2	tes LLP
PLEASE NOTE: Uni	less an assignee is identific recordation, as set forth in IGNEE	d below, no assignee da	sta will appear on the pater FR 3.81(a). Completion of	nt. If an assignee is identi- of this form is NOT a sub- Y and STATE OR COU!	stitute for filing an assign	
4a. Fees submitted: 4b. Method of Payment:	XIssue Fee XPubl (Please first reapply any	ication Fee (if required previously paid fee sho	wn above)	# of Copies		ntity Government
XI Electronic Payme XI The Director is be			Non-electronic payment by deficiency, or credit any			
Applicant certifyi	atus (from status indicate ing micro cutity status. Sea ig small entity status. Sec ing to regular undiscounted	37 CFR 1.29 37 CFR 1.27	fee payment in the micr <u>NOTE</u> . If the application to be a notification of lo	o entity amount will not l in was previously under n iss of entitlement to micro ox will be taken to be a n	ity Status (see forms PTO be accepted at the risk of a tiero entity status, checkir o entity status. otification of loss of entitl	application abandonment. Ig this box will be taken
NOTE: This form must			33. See 37 CFR 1.4 for sig			
Authorized Signature	/Mark G, Kned	leisen/		Date June 1	3, 2019	
Typed or primed nan	ne Mark G. Kned	teisen		Registration No.	42,747	

Page 2 of 3
OMB 0651-0033
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PTOL-85 Part B (08-18) Approved for use through 01/31/2020

Electronic Pat	ent Appli	cation Fee	Transmit	tal		
Application Number:	16183	2927				
Filing Date:	ing Date: 07-Nov-2018					
Title of Invention:	SYSTEM WITH WIRELESS EARPHONES					
First Named Inventor/Applicant Name:	Micha	ael J. Koss				
Filer:	Mark	G. Knedeisen/Th	eresa Merante			
Attorney Docket Number:	08018	B8PCTUSCON9				
Filed as Small Entity					-	
Filing Fees for Utility under 35 USC 111(a)						
Description	- = 1	Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:					-	
Miscellaneous-Filing:					-	
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
UTILITY APPL ISSUE FEE	2501	1	500	500
The state of the same				
Extension-of-Time: Miscellaneous:				

Electronic A	cknowledgement Receipt
EFS ID:	36287065
Application Number:	16182927
International Application Number:	
Confirmation Number:	2160
Title of Invention:	SYSTEM WITH WIRELESS EARPHONES
First Named Inventor/Applicant Name:	Michael J. Koss
Customer Number:	26285
Filer:	Mark G. Knedeisen/Theresa Merante
Filer Authorized By:	Mark G. Knedeisen
Attorney Docket Number:	080188PCTUSCON9
Receipt Date:	13-JUN-2019
Filing Date:	07-NOV-2018
Time Stamp:	11:18:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes	
Payment Type	DA	
Payment was successfully received in RAM	\$500	
RAM confirmation Number	061319INTEFSW00011830021818	
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)
37 CFR 1.20 (Post Issuance fees)
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1)	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	d33cuter78cc74523085d1nisqq5d700d220 7236cs	no	Ĭ
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Information:		2			
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O Box 1450 Alexandria, Virginia 22313-1450

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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

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