

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2016/096398

## A. CLASSIFICATION OF SUBJECT MATTER

G11B 20/10 (2006.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G11B 20/-

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT, WPI, EPODOC, CNKI: earphone, headphone, identity, recognise, user, volume, tone.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 1811735 A (LG ELECTRONICS HUIZHOU CO., LTD.) 02 August 2006 (02.08.2006) description, page 6, line 12 to page 11, line 9	1-12
Y	CN 204515794 U (LENOVO (BEIJING) LTD.) 29 July 2015 (29.07.2015) description, paragraph [0059]	1-12
A	CN 104966521 A (GUANGDONG XIAOTIANCAI TECHNOLOGY CO., LTD.) 07 October 2015 (07.10.2015) the whole document	1-12
A	CN 104581472 A (ALIBABA GROUP HOLDING LTD.) 29 April 2015 (29.04.2015) the whole document	1-12
A	US 9232293 B1 (AMAZON TECHNOLOGIES INC.) 05 January 2016 (05.01.2016) the whole document	1-12

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&amp;” document member of the same patent family</p>
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Date of the actual completion of the international search

09 December 2016

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26 December 2016

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CN2016/096398

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 1811735 A	02 August 2006	None	
CN 204515794 U	29 July 2015	None	
CN 104966521 A	07 October 2015	None	
CN 104581472 A	29 April 2015	HK 1206184 A1	31 December 2015
US 9232293 B1	05 January 2016	None	