

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2019/109638

A. CLASSIFICATION OF SUBJECT MATTER		
G10L 25/78(2013.01)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)		
G10L		
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, CNKI, WPI, EPODOC, IEEE: 音乐, 人声, 分离, 检测, 识别, 梅尔, 沙漏, mel, audio, vocal, human, segment, song, determin+, identif+, recogni+, separat+, hourglass, detach+		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 110097895 A (TENCENT MUSIC ENTERTAINMENT TECHNOLOGY (SHENZHEN) CO., LTD.) 06 August 2019 (2019-08-06) claims 1-11	1-10
Y	CN 108538311 A (TENCENT MUSIC ENTERTAINMENT TECHNOLOGY (SHENZHEN) CO., LTD.) 14 September 2018 (2018-09-14) description, paragraphs [0082]-[0169]	1-10
Y	CN 109308901 A (BAIDU ONLINE NETWORK TECHNOLOGY BEIJING CO., LTD.) 05 February 2019 (2019-02-05) description, paragraphs [0005]-[0009]	1-10
A	CN 108320756 A (GUANGZHOU KUGOU COMPUTER TECHNOLOGY CO., LTD.) 24 July 2018 (2018-07-24) entire document	1-10
A	CN 109166593 A (TENCENT MUSIC ENTERTAINMENT TECHNOLOGY SHENZHEN CO., LTD.) 08 January 2019 (2019-01-08) entire document	1-10
A	US 2015081298 A1 (KABUSHIKI KAISHA TOSHIBA) 19 March 2015 (2015-03-19) entire document	1-10
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "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 "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 "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 "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
03 January 2020		18 February 2020
Name and mailing address of the ISA/CN		Authorized officer
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 110097895 A	06 August 2019	None	
CN 108538311 A	14 September 2018	None	
CN 109308901 A	05 February 2019	None	
CN 108320756 A	24 July 2018	None	
CN 109166593 A	08 January 2019	None	
US 2015081298 A1	19 March 2015	JP 2015060006 A	30 March 2015