

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0232146 A1 JEONG et al.

Jul. 20, 2023 (43) **Pub. Date:**

(54) ACTIVE SOUND DEVICE UTILIZING AUDIO RECOGNITION

(71) Applicant: **COCHL,INC.**, Seoul (KR)

(72) Inventors: Ilyoung JEONG, Seoul (KR); Hyungui LIM, Seoul (KR); Yoonchang HAN,

Seoul (KR); Subin LEE, Seoul (KR); Jeongsoo PARK, Yongin-si, Gyeonggi-do (KR); Donmoon LEE, Suwon-si, Gyeonggi-do (KR)

17/928,737 (21) Appl. No.:

PCT Filed: May 18, 2021

(86) PCT No.: PCT/KR2021/006245

§ 371 (c)(1),

(2) Date: Nov. 30, 2022

(30)Foreign Application Priority Data

Jun. 3, 2020 (KR) 10-2020-0067150

Publication Classification

(51) Int. Cl. H04R 1/10 (2006.01)

U.S. Cl. (52)

CPC H04R 1/1041 (2013.01); H04R 1/1083 (2013.01); H04R 2430/01 (2013.01)

ABSTRACT (57)

The present invention relates to an active sound device utilizing audio recognition, the device comprising a data input unit for inputting audio data from an external terminal, an output unit for outputting the inputted audio data, an audio detection unit for detecting an audio signal generated from outside, a determination unit for determining the audio signal detected by the audio detection unit, and a control unit for, on the basis of information determined by the determination unit, controlling the output of the audio data inputted from the data input unit.



