

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0232163 A1 KIM et al.

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

(54) **DISPLAY APPARATUS**

(71) Applicant: LG Display Co., Ltd., Seoul (KR)

(72) Inventors: Kyounghwan KIM, Paju-si (KR); MinHo SOHN, Paju-si (KR); KiDuk KIM, Paju-si (KR); Sung-Jin KANG,

Paju-si (KR); Jeonggoo KANG, Paju-si (KR); JaiHyuk LEE, Paju-si (KR)

(73) Assignee: LG Display Co., Ltd, Seoul (KR)

(21) Appl. No.: 18/123,883

(22)Filed: Mar. 20, 2023

Related U.S. Application Data

(63) Continuation of application No. 17/314,001, filed on May 6, 2021, now Pat. No. 11,647,336, which is a continuation of application No. 16/711,988, filed on Dec. 12, 2019, now Pat. No. 11,032,650.

(30)Foreign Application Priority Data

Dec. 20, 2018 (KR) 10-2018-0166356

Publication Classification

(51) Int. Cl. H04R 17/00 (2006.01)H04R 1/02 (2006.01)

(52) U.S. Cl. CPC H04R 17/00 (2013.01); H04R 1/028 (2013.01); H04R 2499/11 (2013.01); H04R 2499/15 (2013.01)

(57)**ABSTRACT**

A display apparatus includes a display module including a display panel configured to display an image and a sound generating module on a rear surface of the display panel, the sound generating module includes a vibration generating device, a circuit board on a lower surface of the vibration generating device, a first adhesive member between the circuit board and the vibration generating device, and a second adhesive member between the vibration generating device and the display panel, an elastic modulus of the second adhesive member differing from an elastic modulus of the first adhesive member.

