

## (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2024/0237197 A1

Jul. 11, 2024 (43) **Pub. Date:** 

## (54) ELECTRONIC DEVICE

(71) Applicant: CARUX TECHNOLOGY PTE. LTD.,

SINGAPORE (SG)

(72) Inventor: Hu-Shun YEH, Tainan (Tainan Science

Park) (TW)

(21)Appl. No.: 18/535,361

(22)Filed: Dec. 11, 2023

(30)Foreign Application Priority Data

Jan. 9, 2023 (CN) ...... 202310026091.5

## **Publication Classification**

(51) Int. Cl. H05K 1/02 (2006.01) (52) U.S. Cl.

CPC ...... H05K 1/028 (2013.01); H05K 1/0203 (2013.01); H05K 2201/10136 (2013.01)

(57)**ABSTRACT** 

second length is less than half of the first width.

An electronic device is provided. The electronic device includes a circuit board having two edges. The two edges correspond to each other and extend along a first direction. The circuit board includes a first flat zone, a second flat zone, a flexible zone between the first flat zone and the second flat zone, and two flexible zone gaps. The first flat zone has a first width. The flexible zone includes two flexible zone edges corresponding to each other. The two flexible zone gaps are formed on the two flexible zone edges, respectively. The two flexible zone gaps extend along a second direction that is perpendicular to the first direction. One of the flexible zone gaps has a first length, and the other flexible zone gap has a second length. The sum of the first length and the

100

