

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0215181 A1 LEE et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) **DISPLAY DEVICE**

(71) Applicants: Samsung Display Co., LTD., Yongin-si (KR); AUFLEX Co., Ltd., Hwaseong-si (KR)

(72) Inventors: JUNGHUN LEE, Yongin-si (KR); YOON-JE WOO, Hwaseong-si (KR); DONG-JIN KIM, Hwaseong-si (KR); SUNGSANG AHN, Yongin-si (KR); TAEHOON YANG, Yongin-si (KR)

(21) Appl. No.: 18/239,966

(22)Filed: Aug. 30, 2023

(30)Foreign Application Priority Data

Dec. 22, 2022 (KR) 10-2022-0182118

Publication Classification

(51) Int. Cl. H05K 5/02 (2006.01)

U.S. Cl. (52)CPC H05K 5/0217 (2013.01); H10K 59/12 (2023.02)

ABSTRACT (57)

A display device includes: a display module; a first support plate disposed under the display module, and including a first flat part and a ductile part, where the ductile part extends from the first flat part in a first direction and has a plurality of openings defined therein; a second support plate including a second flat part disposed under the first flat part and a plurality of supporting bars disposed under the ductile part and arranged in the first direction; and a resin layer disposed between the first support plate and the second support plate.

