

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0237494 A1 JEONG et al.

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

(54) DISPLAY DEVICE AND METHOD FOR MANUFACTURING THE SAME

- (71) Applicant: Samsung Display Co., Ltd., Yongin-si (KR)
- (72) Inventors: CHUL HO JEONG, Yongin-si (KR); SUNGGUK AN, Yongin-si (KR); JANG DOO LEE, Yongin-si (KR)
- (73) Assignee: Samsung Display Co., Ltd., Yongin-si (KR)
- Appl. No.: 18/515,571 (21)
- (22)Filed: Nov. 21, 2023

(30)Foreign Application Priority Data

Jan. 9, 2023 (KR) 10-2023-0003118

Publication Classification

(51) Int. Cl. H10K 59/80 (2006.01)H04M 1/02 (2006.01)H10K 71/12 (2006.01)

(52)U.S. Cl.

H10K 59/873 (2023.02); H04M 1/0216 CPC (2013.01); **H10K 59/8792** (2023.02); **H10K** 71/12 (2023.02); H10K 2102/311 (2023.02)

ABSTRACT (57)

A display device includes a display panel and a protection layer disposed on the display panel. The protection layer includes a base layer having a porous structure and a polymer resin that is impregnated into the base layer. The porous structure of the base layer includes a plurality of



