



US 20240215353A1

(19) **United States**

(12) **Patent Application Publication**
KIM

(10) **Pub. No.: US 2024/0215353 A1**

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

(54) **DISPLAY DEVICE AND METHOD OF MANUFACTURING THE SAME**

(71) Applicant: **Samsung Display Co., LTD.**, Yongin-si (KR)

(72) Inventor: **YONGIL KIM**, Yongin-si (KR)

(73) Assignee: **Samsung Display Co., LTD.**, Yongin-si (KR)

(21) Appl. No.: **18/390,469**

(22) Filed: **Dec. 20, 2023**

(30) **Foreign Application Priority Data**
Dec. 26, 2022 (KR) 10-2022-0185064

Publication Classification

(51) **Int. Cl.**
H10K 59/131 (2023.01)
H10K 50/15 (2023.01)

H10K 50/16 (2023.01)
H10K 50/17 (2023.01)
H10K 59/12 (2023.01)
H10K 59/122 (2023.01)
H10K 71/13 (2023.01)
H10K 71/60 (2023.01)

(52) **U.S. Cl.**
CPC **H10K 59/131** (2023.02); **H10K 50/15** (2023.02); **H10K 50/167** (2023.02); **H10K 50/17** (2023.02); **H10K 59/1201** (2023.02); **H10K 59/122** (2023.02); **H10K 71/135** (2023.02); **H10K 71/60** (2023.02)

(57) **ABSTRACT**

A display device includes a first electrode disposed on a substrate, a first functional layer disposed on the first electrode, a pixel defining layer disposed on the first functional layer, and a via layer disposed between the substrate and the first electrode and having liquid repellency on an upper surface overlapping the first electrode in a plan view.

