



(12) **Patent Application Publication**
HAN et al.

(43) **Pub. Date:** **Jul. 18, 2024**

H10K 59/40 (2006.01)

(52) U.S. Cl.

CPC ***H10K 59/8731*** (2023.02); ***G06F 3/0412***
(2013.01); ***G09G 3/3233*** (2013.01); ***H10K***
59/1201 (2023.02); ***H10K 59/40*** (2023.02);
G09G 2300/0819 (2013.01); ***G09G 2300/0842***
(2013.01)

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

(57)

ABSTRACT

A display device and a method for manufacturing the same are disclosed. The display device includes a substrate which includes a display area including an optical area and a normal area and a non-display area. The display device further includes a plurality of light emitting diodes disposed on the substrate in the display area. The display device further includes an encapsulation layer disposed to cover the plurality of light emitting diodes. The display device further includes a touch sensing layer which is disposed on the encapsulation layer and includes a touch line. The display device further includes a passivation layer disposed to cover the touch line. The display device further includes an organic layer which is disposed to cover the touch sensing layer and the passivation layer and is in contact with the encapsulation layer.

(21) Appl. No.: 18/390,159

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

(30) **Foreign Application Priority Data**

Jan. 12, 2023 (KR) 10-2023-0004870

Publication Classification

(51) **Int. Cl.**

H10K 59/80 (2006.01)

G06F 3/041 (2006.01)

G09G 3/3233 (2006.01)

