



US 20240237481A1

(19) **United States**

(12) **Patent Application Publication**
Shin

(10) **Pub. No.: US 2024/0237481 A1**

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

(54) **DISPLAY APPARATUS**

Publication Classification

(71) Applicant: **Samsung Display Co., Ltd.**, Yongin-Si (KR)

(72) Inventor: **Hyuneok Shin**, Yongin-si (KR)

(21) Appl. No.: **18/373,278**

(22) Filed: **Sep. 27, 2023**

(30) **Foreign Application Priority Data**

Jan. 6, 2023 (KR) 10-2023-0002499

(51) **Int. Cl.**

H10K 59/80 (2006.01)

G09G 3/3233 (2006.01)

H10K 59/122 (2006.01)

(52) **U.S. Cl.**

CPC **H10K 59/80523** (2023.02); **G09G 3/3233**

(2013.01); **H10K 59/122** (2023.02); **G09G**

2300/0842 (2013.01)

(57)

ABSTRACT

A display apparatus includes a substrate, and a display element disposed over the substrate, wherein the display element includes a pixel electrode, an emission layer disposed on the pixel electrode, and an opposite electrode covering the emission layer, and wherein the opposite electrode includes a silver (Ag) alloy including Ag, at least one of Group 15 metal elements, and indium (In).

