



US 20240244930A1

(19) **United States**

(12) **Patent Application Publication**

Gu et al.

(10) **Pub. No.: US 2024/0244930 A1**

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

(54) **DISPLAY PANEL AND DISPLAY DEVICE**

(71) Applicant: **Hubei Yangtze Industrial Innovation Center Of Advanced Display Co., Ltd., Wuhan (CN)**

(72) Inventors: **Jiachang Gu, Wuhan (CN); Chujie Yu, Wuhan (CN); Kang Yang, Wuhan (CN)**

(73) Assignee: **Hubei Yangtze Industrial Innovation Center Of Advanced Display Co., Ltd., Wuhan (CN)**

(21) Appl. No.: **18/618,576**

(22) Filed: **Mar. 27, 2024**

(30) **Foreign Application Priority Data**
Oct. 24, 2023 (CN) 202311390228.1

Publication Classification

(51) **Int. Cl.**
H10K 59/80 (2006.01)

(52) **U.S. Cl.**
CPC **H10K 59/873** (2023.02); **H10K 59/80521** (2023.02)

(57) **ABSTRACT**

A display panel includes a display region, an isolation region and a via region. The isolation region at least partially surrounds the via region, and the display region at least partially surrounds the isolation region. The display panel further includes a substrate, an isolation pillar, a cathode layer and a conductive structure. The isolation pillar is located in the isolation region, is located on a side of the substrate, and includes a metal material. The cathode layer is located on a side of the isolation pillar facing away from the substrate and is disconnected by the isolation pillar. The conductive structure is located between the cathode layer and the substrate and includes at least one conductive portion, the conductive portion is at least partially located in the isolation region and overlaps with an edge of the via region.