

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0179969 A1

May 30, 2024 (43) Pub. Date:

(54) DISPLAY PANEL AND DISPLAY DEVICE

(71) Applicant: BOE TECHNOLOGY GROUP CO., LTD., Beijing (CN)

(72) Inventors: Ying HAN, Beijing (CN); Yicheng LIN, Beijing (CN); Pan XU, Beijing (CN); Guoying WANG, Beijing (CN); Xing ZHANG, Beijing (CN); Zhan GAO, Beijing (CN); Mingi CHU, Beijing (CN)

17/789,852 (21) Appl. No.:

PCT Filed: Jun. 22, 2021 (22)

(86) PCT No.: PCT/CN2021/101448

§ 371 (c)(1),

Dec. 29, 2022 (2) Date:

Publication Classification

Int. Cl. (51)H10K 59/131 (2006.01)

U.S. Cl. CPC *H10K 59/131* (2023.02)

(57)**ABSTRACT**

A display panel has a display region, a fan-out region located on a side of the display region, and a bonding region located on a side of the fan-out region away from the display region. The display panel includes a gate driving circuit disposed in the display region, a plurality of data lines and a plurality of control signal lines that all extends from the display region to the fan-out region, and a plurality of data fan-out leads and a plurality of first fan-out leads that are all disposed in the fan-out region. Each data line is electrically connected to a data fan-out lead. The data fan-out leads are gathered to the bonding region. The control signal lines are electrically connected to the gate driving circuit. Each control signal line is electrically connected to a first fan-out lead. The first fan-out leads are gathered to the bonding region.

100

