

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0213262 A1 SU et al.

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

(54) DISPLAY PANEL AND DISPLAY DEVICE

(71) Applicants: Beijing BOE Display Technology Co., Ltd., Beijing (CN); BOE Technology Group Co., Ltd., Beijing (CN)

Inventors: Qiujie SU, Beijing (CN); Lingdan BO,

Beijing (CN); Dongchuan CHEN, Beijing (CN); Jiantao LIU, Beijing (CN); Jianbo XIAN, Beijing (CN)

(21) Appl. No.: 17/912,255

(22)PCT Filed: Dec. 31, 2021

(86) PCT No.: PCT/CN2021/143492

§ 371 (c)(1),

(2) Date: Sep. 16, 2022

Publication Classification

(51) Int. Cl.

H01L 27/12 (2006.01)G09G 3/20 (2006.01)G11C 19/28 (2006.01)

(52) U.S. Cl.

CPC H01L 27/124 (2013.01); G09G 3/20 (2013.01); G11C 19/287 (2013.01); G09G 2310/0286 (2013.01)

ABSTRACT (57)

Embodiments of the present disclosure provide a display panel and a display device. The display panel includes: a base substrate including a non-display area; a gate drive circuit located in the non-display area, where the gate drive circuit includes a plurality of shift registers, and the plurality of shift registers are divided into a plurality of register sets; and a plurality of signal lead-in lines located in the nondisplay area, where the plurality of signal lead-in lines are divided into a plurality of line sets, a frame start signal end of one register set is correspondingly and electrically connected to one line set, and two signal lead-in lines of one line set are provided with the signal lead-in line of another line set therebetween.

