US 20240251625A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2024/0251625 A1**

MENG (43) **Pub. Date: Jul. 25, 2024**

(54) **DISPLAY PANEL, DISPLAY DEVICE AND DISPLAY DRIVING METHOD**

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

(72) Inventor: **Zhaohui MENG**, Beijing (CN)

(21) Appl. No.: **17/778,218**

(22) PCT Filed: **Jul. 27, 2021**

(86) PCT No.: **PCT/CN2021/108618**

§ 371 (c)(1),
(2) Date: **May 19, 2022**

Publication Classification

(51) **Int. Cl.**

H10K 59/35	(2006.01)
G09G 3/20	(2006.01)
G09G 3/3208	(2006.01)
H10K 59/90	(2006.01)

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

CPC ***H10K 59/353*** (2023.02); ***G09G 3/2074*** (2013.01); ***G09G 3/3208*** (2013.01); *G09G 2300/0413* (2013.01); *G09G 2300/0452* (2013.01); *G09G 2370/00* (2013.01); *H10K 59/90* (2023.02)

(57) **ABSTRACT**

The present disclosure provides a display panel, a display device and a display driving method. The display panel includes a first display region and a second display region each including a plurality of pixel repeat units, each pixel repeat unit includes two pixel groups in adjacent pixel rows, and the two pixel groups in a same pixel repeat unit are closest to each other relative to two pixel groups in different pixel repeat units. Each pixel group includes a plurality of sub-pixels in different colors, and the sub-pixels in different colors are arranged in different modes along a pixel row direction in the two pixel groups in a same pixel repeat unit.