



US 20240244918A1

(19) **United States**

(12) **Patent Application Publication**
KIM et al.

(10) **Pub. No.: US 2024/0244918 A1**

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

(54) **DISPLAY DEVICE AND MANUFACTURING METHOD OF THE SAME**

Publication Classification

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

(51) **Int. Cl.**
H10K 59/38 (2006.01)
H10K 59/12 (2006.01)
H10K 59/80 (2006.01)
(52) **U.S. Cl.**
CPC **H10K 59/38** (2023.02); **H10K 59/1201** (2023.02); **H10K 59/8792** (2023.02)

(72) Inventors: **SOODONG KIM**, Yongin-si (KR);
SUNYOUNG KWON, Yongin-si (KR);
JINWON KIM, Yongin-si (KR);
HYE-JIN PAEK, Yongin-si (KR);
TAEYOUNG SONG, Yongin-si (KR)

(57) **ABSTRACT**

A display device includes a display panel that provides source light and a light control member disposed on the display panel and including light control parts and a division pattern layer that divides the light control parts, wherein the division pattern layer includes first barrier rib portions extending in a first direction and spaced apart from each other by a first distance in a second direction perpendicular to the first direction, wherein the light control parts are disposed between the first barrier rib portions, second barrier rib portions extending in the second direction and spaced apart from each other in the first direction, wherein the light control part are disposed between the second barrier rib portions, and dam portions spaced apart from each other in the second direction by a second distance greater than the first distance.

(73) Assignee: **Samsung Display Co., Ltd.**, Yongin-si (KR)

(21) Appl. No.: **18/490,874**

(22) Filed: **Oct. 20, 2023**

(30) **Foreign Application Priority Data**

Jan. 16, 2023 (KR) 10-2023-0005989

