

Title (en)  
BACKLIGHT UNIT WITH EMISSION MODIFICATION

Title (de)  
RÜCKBELEUCHTUNGSEINHEIT MIT EMISSIONSÄNDERUNG

Title (fr)  
UNITÉ DE RÉTROÉCLAIRAGE À MODIFICATION D'ÉMISSION

Publication  
**EP 4070158 A4 20231018 (EN)**

Appication  
**EP 21857009 A 20210930**

Priority

- US 202117177920 A 20210217
- US 202117348570 A 20210615
- US 2021052904 W 20210930

Abstract (en)  
[origin: WO2022177606A1] A display system and method are disclosed that includes an electronic display device and a backlight comprising a light-emitting array, a reflector adjacent to the light-emitting array, a diffuser opposite the reflector, a first brightness enhancing layer adjacent the diffuser, and an optical film that includes at least one light conversion material or at least one light absorbing material. The light conversion or light absorbing material is structured and configured to reduce hazardous blue light emissions between about 400 nm to about 500 nm. The disclosed display device can include a liquid crystal panel configured to control transmission of light from the backlight to a viewer. The display device also includes one or more optical films that incorporate one or more light conversion or light absorbing materials. The optical films can be positioned between the layers of the disclosed display device and give enhanced blue-light absorption to the display device.

IPC 8 full level  
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Citation (search report)

- [X] US 2019196071 A1 20190627 - BARRETT JUSTIN [US], et al
- See references of WO 2022177606A1

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