

Title (en)

PANEL LIGHT APPARATUS

Title (de)

PLATTENLICHTVORRICHTUNG

Title (fr)

APPAREIL D'ÉCLAIRAGE DE PANNEAU

Publication

EP 3623696 B1 20220223 (EN)

Application

EP 19188350 A 20190725

Priority

CN 201821501945 U 20180913

Abstract (en)

[origin: EP3623696A1] A panel light apparatus includes a heat sink frame (11; 41; 972; 9831; 672; 752; 759; 995), a first LED light bar (31; 32), an optical guiding module (13; 71) and a back cover (28; 831; 911; 975; 781; 653) (28; 831; 911; 975; 781; 653). The first LED light bar (31; 32) has a first plugging structure (312; 313; 314; 315) to be plugged to a second plugging structure of the heat sink frame (11; 41; 972; 9831; 672; 752; 759; 995). Heat of the LED light bar(511; 512) is transmitted to the heat sink frame (11; 41; 972; 9831; 672; 752; 759; 995). The optical guiding module (13; 71) includes a light diffusion layer (231; 714; 632; 864; 872; 902; 881; 917; 892; 891; 944; 9742; 774) and a light guiding layer (232; 713; 63; 863; 871; 901; 916; 891; 943; 9741; 773). A lateral side of the light guiding layer (232; 713; 63; 863; 871; 901; 916; 891; 943; 9741; 773) faces to LED modules (945; 9511; 9512; 996) of the first LED light bar (31; 32) for guiding light of the LED modules (945; 9511; 9512; 996) to the diffusion layer. The light guiding layer (232; 713; 63; 863; 871; 901; 916; 891; 943; 9741; 773) and the light diffusion layer (231; 714; 632; 864; 872; 902; 881; 917; 892; 891; 944; 9742; 774) are fixed together as an assembly module before being placed in the surrounding border.

IPC 8 full level

F21V 21/04 (2006.01); **F21S 8/02** (2006.01); **F21S 8/04** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP)

F21S 8/026 (2013.01); **F21S 8/04** (2013.01); **F21V 21/049** (2013.01); **F21Y 2115/10** (2016.07)

Cited by

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