

Title (en)

SCREEN FOR A FREE VIEWING MODE AND A RESTRICTED VIEWING MODE

Title (de)

BILDSCHIRM FÜR EINEN FREIEN UND EINEN EINGESCHRÄNKTEN SICHTMODUS

Title (fr)

ÉCRAN POUR MODE DE VISUALISATION DÉGAGÉE ET MODE VISUALISATION RESTREINTE

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Application

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Abstract (en)

[origin: WO2019001755A1] The invention relates to a screen (1), which can be operated in at least two operating modes, (B1) for a free viewing mode and (B2) for a restricted viewing mode, comprising a flat extensive backlighting (2) which radiates light in a restricted angular range, a transmissive imager (5) arranged in front of the backlighting (2) in the viewing direction, a plate-shaped light guide (3) positioned between the imager (5) and the backlighting (2), consisting of a transparent, thermoplastic or thermoelastic synthetic material, and having decoupling elements (6) on at least one of the large surfaces and/or within the volume of said light guide, wherein lamps (4) are arranged laterally on narrow sides of the light guide (3), the light guide (3) is up to at least 70% transparent for the light being emitted from the backlighting (2), the decoupling elements (6) are selected in terms of the number thereof per surface and their spread such that the light guide (3) has an average haze value of less than 7% on at least 80% of the surface thereof, whereby the light radiated in a restricted angular range from the backlighting (2) at least in the operating mode B2 is only minimally scattered when passing through the light guide (3), wherein the decoupling elements (6) are also distributed on at least one of the large surfaces and/or within the volume of the light guide (3) in such a way that up to at least 80% of the decoupling of the light coming from the lamps (4) out of the light-guide is carried out on one of the large surfaces of the light-guide (3) in the direction of the imager (5), and wherein the backlighting (2) is switched on and the lamps (4) are switched off in the operating mode (B2), and wherein at least the lamps (4) are switched on in the operating mode (B1).

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