

Title (en)  
OPTICAL ASSEMBLY OF A VARIABLE-MESSAGE SIGN AND VARIABLE-MESSAGE SIGN

Title (de)  
OPTISCHE BAUGRUPPE EINES WECHSELVERKEHRSZEICHENS UND WECHSELVERKEHRSZEICHEN

Title (fr)  
ENSEMBLE OPTIQUE D'UN PANNEAU DE SIGNALISATION ROUTIÈRE VARIABLE ET PANNEAU DE SIGNALISATION ROUTIÈRE VARIABLE

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Application  
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Abstract (en)  
[origin: WO2019048310A1] The invention relates, inter alia, to an optical assembly for a display panel, particularly a display panel of a message sign or a variable-message sign, comprising a lens (10) and a row of at least two or three, particularly different-coloured light sources (14.1, 14.2, 14.3), particularly of a light-emitting diode (LED) (14), the light sources (14.1, 14.2, 14.3) being linearly adjacently arranged at constant distances along an axis (24), each light source (14.1, 14.2, 14.3) respectively having an optical axis (15.1, 15.2, 15.3) and the optical axes (15.1, 15.2, 15.3) of the light sources (14.1, 14.2, 14.3) being parallel to each other and arranged in a plane, the lens (10) for the light sources (14.1, 14.2, 14.3) being at a distance from the light sources (14.1, 14.2, 14.3), said lens (10) having a light admission side (12) facing the row of light sources (14.1, 14.2, 14.3) and a light exit side (16) facing away from the light sources (14.1, 14.2, 14.3), the light admission side (12) of the lens (10) comprising conical collection optics for the light emitted from the light sources (14.1, 14.2, 14.3) of the row of light sources, and the collection optics having an apex line (20) in the region of the apex thereof such that the collection optics has a focussing line (21), or the collection optics having a plurality of adjacently arranged apex points (26.1, 26.2, 26.3), preferably of the same height, in the region of the apex thereof, such that, with the adjacently arranged apex points (26.1, 26.2, 26.3), the collection optics has a focal point (30.1, 30.2, 30.3) for each light source (14.1, 14.2, 14.3).

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