

Title (en)

PROJECTION ASSEMBLY FOR A HEAD-UP DISPLAY (HUD), WITH P-POLARIZED RADIATION

Title (de)

PROJEKTIONSANORDNUNG FÜR EIN HEAD-UP-DISPLAY (HUD) MIT P-POLARISIERTER STRAHLUNG

Title (fr)

ENSEMBLE DE PROJECTION POUR UN AFFICHAGE TÊTE HAUTE (HUD) AVEC UN RAYONNEMENT À POLARISATION EN P

Publication

**EP 4135977 A1 20230222 (DE)**

Application

**EP 21710324 A 20210312**

Priority

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- EP 2021056299 W 20210312

Abstract (en)

[origin: WO2021209201A1] The present invention relates to a projection assembly for a head-up display (HUD), at least comprising: - a composite pane (10), comprising an outer pane (1) and an inner pane (2), which are joined to each other by means of a thermoplastic intermediate layer (3), the composite pane having an HUD region (B); - an HUD reflection layer, which is suitable for reflecting p-polarized radiation, on the surface (II, III) of the outer pane (1) or of the inner pane (2) that faces the intermediate layer (3) or within the intermediate layer (3); - an HUD projector (4), which is directed at the HUD region (B) and emits p-polarized radiation; and - a high-refractive-index coating (30) having a refractive index of at least 1.7 on the surface (IV) of the inner pane (2) that faces away from the intermediate layer (3). The high-refractive-index coating (30) is a sol-gel coating.

IPC 8 full level

**B32B 17/10** (2006.01); **G02B 27/01** (2006.01)

CPC (source: CN EP KR US)

**B32B 7/023** (2019.01 - KR); **B32B 17/10036** (2013.01 - CN EP KR); **B32B 17/10119** (2013.01 - KR); **B32B 17/10201** (2013.01 - EP); **B32B 17/10229** (2013.01 - CN EP); **B32B 17/10458** (2013.01 - EP KR); **B32B 17/10568** (2013.01 - CN); **B32B 17/10761** (2013.01 - CN EP); **B32B 17/1077** (2013.01 - EP); **B32B 17/10788** (2013.01 - EP); **B60J 1/00** (2013.01 - KR); **B60K 35/00** (2013.01 - KR); **C03C 17/3435** (2013.01 - EP); **C03C 17/36** (2013.01 - EP); **C03C 17/3618** (2013.01 - EP); **C03C 17/3626** (2013.01 - EP); **C03C 17/3644** (2013.01 - EP); **C03C 17/3652** (2013.01 - EP); **C03C 17/366** (2013.01 - EP); **C03C 27/10** (2013.01 - EP); **G02B 1/10** (2013.01 - CN KR); **G02B 1/11** (2013.01 - KR); **G02B 5/0875** (2013.01 - CN KR); **G02B 5/3066** (2013.01 - CN KR US); **G02B 5/3083** (2013.01 - CN KR); **G02B 27/0018** (2013.01 - CN EP KR); **G02B 27/0101** (2013.01 - CN EP KR US); **G02B 27/283** (2013.01 - CN KR); **G02B 27/288** (2013.01 - CN); **B32B 2255/20** (2013.01 - KR); **B32B 2307/42** (2013.01 - KR); **B32B 2309/105** (2013.01 - KR); **C03C 2217/732** (2013.01 - EP); **C03C 2217/734** (2013.01 - EP); **C03C 2217/91** (2013.01 - EP); **G02B 1/11** (2013.01 - EP); **G02B 2027/011** (2013.01 - CN KR); **G02B 2027/012** (2013.01 - CN KR); **G02B 2027/0194** (2013.01 - CN KR); **G02B 2207/101** (2013.01 - US)

C-Set (source: EP)

1. **B32B 17/10005** + **B32B 2367/00**
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BA ME

Designated validation state (EPC)

KH MA MD TN

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