

Title (en)

SEE-THROUGH COMPUTER DISPLAY SYSTEMS

Title (de)

DURCHSICHTIGE COMPUTERANZEIGESYSTEME

Title (fr)

SYSTÈMES INFORMATIQUES D'AFFICHAGE TRANSPARENT

Publication

**EP 3259632 A1 20171227 (EN)**

Application

**EP 16752892 A 20160216**

Priority

- US 201514623932 A 20150217
- US 201514635390 A 20150302
- US 201514670677 A 20150327
- US 201514741943 A 20150617
- US 201514813969 A 20150730
- US 201514851755 A 20150911
- US 201514861496 A 20150922
- US 201514884567 A 20151015
- US 2016018040 W 20160216

Abstract (en)

[origin: WO2016133886A1] A head mounted display with improved high transmission see-through view of the surrounding environment with an overlaid high contrast displayed image includes upper optics with a first optical axis including an emissive image source that provides image light comprised of one or more narrow spectral bands of light, one or more lenses, a stray light trap and non-polarized lower optics with a second optical axis including a planar beam splitter angled relative to the first and second optical axes and a curved partially reflective mirror, wherein one or more of the reflective surfaces are treated to reflect a majority of incident light within the one or more narrow spectral bands and transmit a majority of incident visible light from the surrounding environment.

IPC 8 full level

**G02B 27/01** (2006.01)

CPC (source: CN EP)

**G02B 27/0172** (2013.01 - CN EP); **G02B 27/1006** (2013.01 - EP); **G02B 27/142** (2013.01 - EP); **G02B 2027/0118** (2013.01 - EP); **G02B 2027/014** (2013.01 - CN)

Cited by

CN110865458A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016133886 A1 20160825**; CN 106662750 A 20170510; CN 106662750 B 20210312; CN 113671703 A 20211119; EP 3259632 A1 20171227; EP 3259632 A4 20180228

DOCDB simple family (application)

**US 2016018040 W 20160216**; CN 201680002425 A 20160216; CN 202110186961 A 20160216; EP 16752892 A 20160216