

Title (en)

HEAD-MOUNTED DISPLAY (HMD) WITH SPATIALLY-VARYING RETARDER OPTICS

Title (de)

AM KOPF MONTIERTE ANZEIGE (HMD) MIT RÄUMLICH VARIIERENDER RETARDEROPTIK

Title (fr)

VISIOCASQUE (HMD) COMPRENANT UNE OPTIQUE À RETARDATEUR VARIANT DANS L'ESPACE

Publication

EP 4025952 A4 20231108 (EN)

Application

EP 20890923 A 20201119

Priority

- US 201916692823 A 20191122
- US 2020061293 W 20201119

Abstract (en)

[origin: WO2021102148A1] A head-mounted display, or other near-to-eye display, incorporates optics that include a spatially-varying retarder (SVR). The SVR may be manufactured with a correction factor applied thereto in order to compensate for one or more manufacturing errors that are exhibited in a molded lens and/or a polarizing beam splitter included in the optics of the system.

IPC 8 full level

G02B 27/00 (2006.01); **G02B 27/28** (2006.01)

CPC (source: EP KR)

G02B 5/3083 (2013.01 - EP KR); **G02B 27/0018** (2013.01 - EP KR); **G02B 27/0172** (2013.01 - EP KR); **G02B 27/283** (2013.01 - EP KR); **G02B 27/62** (2013.01 - EP KR)

Citation (search report)

- [A] JP 5095162 B2 20121212
- [A] US 6900866 B2 20050531 - KURTZ ANDREW F [US], et al
- [A] US 2004263989 A1 20041230 - COBB JOSHUA M [US], et al
- [A] US 2004179158 A1 20040916 - SILVERSTEIN BARRY D [US], et al
- [A] US 5835279 A 19981110 - MARSHALL IAN [GB], et al
- [A] US 2016077335 A1 20160317 - AN JUNGKWUEN [KR], et al
- [A] US 2018101020 A1 20180412 - GOLLIER JACQUES [US], et al
- [A] US 10007121 B2 20180626 - YANG WEN-CHU [TW], et al
- [X] ANONYMOUS ED - DARL KUHN: "Variable Retarder System to Optimize Contrast in LCoS Projectors", IP.COM, IP.COM INC., WEST HENRIETTA, NY, US, 21 May 2002 (2002-05-21), XP013003153, ISSN: 1533-0001
- See references of WO 2021102148A1

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

DOCDB simple family (publication)

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DOCDB simple family (application)

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