

Title (en)

COATED OPTICAL OBJECT AND METHOD FOR PRODUCING A COATED OPTICAL OBJECT

Title (de)

BESCHICHTETER OPTISCHER GEGENSTAND UND VERFAHREN ZUR HERSTELLUNG EINES BESCHICHTETEN OPTISCHEN GEGENSTANDS

Title (fr)

OBJET OPTIQUE POURVU D'UN REVÊTEMENT ET PROCÉDÉ DE FABRICATION D'UN OBJET OPTIQUE POURVU D'UN REVÊTEMENT

Publication

EP 3286584 A1 20180228 (DE)

Application

EP 16717594 A 20160413

Priority

- DE 102015106368 A 20150424
- EP 2016058115 W 20160413

Abstract (en)

[origin: WO2016169825A1] The invention relates to a coated object (100) which comprises a substrate (1) and an optical coating (2) arranged on the substrate (1). The optical coating (2) has a reflection-reducing layer sequence (3) which comprises a cover layer (4) with a refractive index n_A and at least one diamond layer (5) with a refractive index $n_{D1} > n_A$. The diamond layer (5) is arranged between the cover layer (4) and the substrate (1) and has diamond crystals or consists thereof, said diamond layer (4) having a thickness of less than 500 nm.

IPC 8 full level

G02B 1/115 (2015.01); **G02B 1/14** (2015.01)

CPC (source: CN EP US)

C23C 14/35 (2013.01 - US); **C23C 16/271** (2013.01 - US); **C23C 16/505** (2013.01 - US); **C23C 16/511** (2013.01 - US); **G02B 1/02** (2013.01 - EP US); **G02B 1/115** (2013.01 - CN EP US); **G02B 1/14** (2015.01 - CN EP US)

Citation (search report)

See references of WO 2016169825A1

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 2016169825 A1 20161027; CN 108112266 A 20180601; DE 102015106368 A1 20161027; DE 102015106368 B4 20170302; EP 3286584 A1 20180228; JP 2018513423 A 20180524; JP 6713485 B2 20200624; US 2018136369 A1 20180517

DOCDB simple family (application)

EP 2016058115 W 20160413; CN 201680036964 A 20160413; DE 102015106368 A 20150424; EP 16717594 A 20160413; JP 2017555562 A 20160413; US 201615569079 A 20160413