

Title (en)

ABRASION-RESISTANT AND SCRATCH-RESISTANT COATINGS HAVING A LOW INDEX OF REFRACTION ON A SUBSTRATE

Title (de)

ABRIEB- UND KRATZFESTE BESCHICHTUNGEN MIT NIEDRIGER BRECHZAHL AUF EINEM SUBSTRAT

Title (fr)

REVETEMENTS RESISTANTS A L'ABRASION ET AUX RAYURES, AYANT UN INDICE DE REFRACTION FAIBLE, APPLIQUES SUR UN SUBSTRAT

Publication

EP 1778598 A2 20070502 (DE)

Application

EP 05752553 A 20050607

Priority

- EP 2005006113 W 20050607
- DE 102004027842 A 20040608

Abstract (en)

[origin: WO2005120154A2] Disclosed is a substrate with an abrasion-resistant and scratch-resistant coating that has a low index of refraction and comprises magnesium fluoride and at least one metal oxide or metalloid oxide. Said coating can be obtained by applying a coating composition containing magnesium fluoride or a precursor thereof and at least one metal oxide, metalloid oxide, or a precursor thereof onto a substrate and then subjecting the same to a thermal treatment. The inventive coating is suitable for optical layers particularly on translucent substrates. Examples of adequate uses include antireflective layers and packets of interference layer.

IPC 8 full level

C03C 17/22 (2006.01); **G02B 1/10** (2006.01); **G02B 1/11** (2006.01)

CPC (source: EP US)

C03C 17/22 (2013.01 - EP US); **G02B 1/10** (2013.01 - US); **G02B 1/105** (2020.05 - EP); **G02B 1/113** (2013.01 - EP US); **G02B 1/14** (2015.01 - EP US); **C03C 2217/21** (2013.01 - EP US); **C03C 2217/285** (2013.01 - EP US); **C03C 2217/29** (2013.01 - EP US); **C03C 2218/113** (2013.01 - EP US)

Citation (search report)

See references of WO 2005120154A2

Citation (examination)

- US 2004006249 A1 20040108 - HOSHINO YASUYUKI [JP], et al
- EP 1146093 A1 20011017 - NIPPON KAYAKU KK [JP], et al

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DOCDB simple family (application)

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