

Title (en)  
SUBSTRATE TREATED WITH COLOR DEVELOPMENT, AND SUBSTRATE COLOR DEVELOPMENT TREATMENT METHOD FOR SAME

Title (de)  
MIT FARBENTWICKLUNG BEHANDELTES SUBSTRAT UND SUBSTRATFARBENTWICKLUNGSBEHANDLUNGSVERFAHREN DAFÜR

Title (fr)  
SUBSTRAT TRAITÉ AVEC DÉVELOPPEMENT DE COULEUR ET PROCÉDÉ DE TRAITEMENT DE SUBSTRAT AVEC DÉVELOPPEMENT DE COULEUR POUR CE DERNIER

Publication  
**EP 3088565 A4 20170308 (EN)**

Application  
**EP 14875156 A 20141226**

Priority

- KR 20130164044 A 20131226
- KR 20130164045 A 20131226
- KR 20130164046 A 20131226
- KR 20130164047 A 20131226
- KR 2014012931 W 20141226

Abstract (en)  
[origin: EP3088562A1] This color-treated base material, which comprises a matrix comprising magnesium, a film formed on the matrix and containing a compound represented by chemical formula 1, and a wavelength conversion layer formed on the film, can improve the durability of the base material while maintaining the unique metal texture and gloss of the base material and can uniformly realize various colors, such as blue and green, including an achromatic color such as black, on the surface of the base material and thus can be usefully used in the fields of building exterior materials, automobile interiors, and particularly electrical/electronic component materials, such as mobile product frames, in which a metal material is used.

IPC 8 full level  
**C23C 22/46** (2006.01); **C23C 22/60** (2006.01); **C23C 22/73** (2006.01); **C23C 22/83** (2006.01); **C23C 22/84** (2006.01)

CPC (source: EP)  
**C23C 22/60** (2013.01); **C23C 22/62** (2013.01); **C23C 22/64** (2013.01); **C23C 22/73** (2013.01); **C23C 22/83** (2013.01); **C23C 28/324** (2013.01); **C23C 28/34** (2013.01); **C23C 30/00** (2013.01)

Citation (search report)

- [X1] GB 532878 A 19410203 - DOW CHEMICAL CO
- [XA1] US 2250473 A 19410729 - DE LONG HERBERT K
- [A] JP 2010265522 A 20101125 - KANSAI PAINT CO LTD, et al
- See references of WO 2015099505A1

Cited by  
CN111962054A

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)  
**EP 3088562 A1 20161102; EP 3088562 A4 20170308; EP 3088562 B1 20190508**; CN 105849313 A 20160810; CN 105849313 B 20180309; CN 105849314 A 20160810; CN 105849314 B 20180626; CN 105849315 A 20160810; CN 105849315 B 20180921; EP 3088563 A1 20161102; EP 3088563 A4 20170308; EP 3088563 B1 20190515; EP 3088564 A1 20161102; EP 3088564 A4 20170308; EP 3088564 B1 20190522; EP 3088565 A1 20161102; EP 3088565 A4 20170308; EP 3088565 B1 20190612; EP 3088565 B9 20191023; EP 3088566 A1 20161102; EP 3088566 A4 20170308; EP 3088566 B1 20180815

DOCDB simple family (application)  
**EP 14873790 A 20141226**; CN 201480071014 A 20141226; CN 201480071333 A 20141226; CN 201480071367 A 20141226; EP 14874603 A 20141226; EP 14874919 A 20141226; EP 14875156 A 20141226; EP 14875687 A 20141226