

Title (en)  
Enamellable oxide layer

Title (de)  
Emaillierbare Oxidschicht

Title (fr)  
Couche d'oxyde émaillable

Publication  
**EP 0648863 B2 20010502 (DE)**

Application  
**EP 94810572 A 19940930**

Priority  
CH 308193 A 19931013

Abstract (en)  
[origin: EP0648863A1] Aluminium-containing substrate for enamel coatings, comprising, at least on the areas intended for enamel coating, a surface layer of aluminium or an aluminium alloy and, on this surface layer, an oxide layer which constitutes an isotropic barrier layer with a thickness of from 0.01 to 1  $\mu\text{m}$  and a dielectric constant of between 5 and 10. Adjacent to this barrier layer there may also be a porous oxide layer with a thickness of from 0.1 to 10  $\mu\text{m}$ . An enamel coating having a thickness of, for example, from 50 to 200  $\mu\text{m}$  is applied to the substrate. The enamelled substrates can be employed as exterior panelling on vehicles or exterior facing on buildings, the enamel-coated substrates being outstandingly protected against external influences.

IPC 1-7  
**C23D 3/00**; C25D 11/04; C25D 11/06

IPC 8 full level  
**C23D 3/00** (2006.01); **C25D 11/04** (2006.01)

CPC (source: EP)  
**C23D 3/00** (2013.01); **C25D 11/04** (2013.01)

Citation (opposition)  
Opponent :

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