

Title (en)  
Aluminium based substrate for enamelling

Title (de)  
Aluminiumhaltiges Substrat für Emailbeschichtungen

Title (fr)  
Substrat à base d'aluminium pour l'émaillage

Publication  
**EP 0611834 B1 19970423 (DE)**

Application  
**EP 94810015 A 19940114**

Priority  
CH 50093 A 19930218

Abstract (en)  
[origin: EP0611834A1] Aluminium-containing substrate for enamel coatings, containing an oxide layer at least on the sides of the enamel coatings, the substrate containing a surface layer of aluminium or an aluminium alloy and carrying on this layer a porous oxide layer more than 0.2  $\mu\text{m}$  thick, with a pore diameter of from 0.03 to 0.15  $\mu\text{m}$  and a pore depth/diameter ratio of from 2 to 60. An enamel coating is applied to the substrate in a thickness of, for example, from 50 to 200  $\mu\text{m}$ . The enamelled substrates can be used as exterior trim or cladding on vehicles or buildings, the enamel-coated substrates having outstanding protection against external influences.

IPC 1-7  
**C23D 3/00**; **C25D 11/08**

IPC 8 full level  
**C23D 3/00** (2006.01); **C25D 11/08** (2006.01)

CPC (source: EP)  
**C23D 3/00** (2013.01); **C25D 11/08** (2013.01)

Cited by  
CN107265859A; DE19649662A1; US6517904B1; US6528186B1; EP0648863B1

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