

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 μm 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 μm . An enamel coating having a thickness of, for example, from 50 to 200 μm 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)

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C23D 3/00 (2013.01); **C25D 11/04** (2013.01)

Citation (opposition)
Opponent :

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