

Title (en)

COMPOSITION AND PROCESS FOR PREPARING CHROMIUM-ZIRCONIUM COATINGS ON METAL SUBSTRATES

Title (de)

ZUSAMMENSETZUNG UND VERFAHREN ZUR HERSTELLUNG VON CHROM-ZIRCONIUM-ÜBERZÜGEN AUF METALLSUBSTRATEN

Title (fr)

COMPOSITION ET PROCEDE PERMETTANT DE PREPARER DES REVETEMENTS DE CHROME-ZIRCONIUM SUR DES SUBSTRATS METALLIQUES

Publication

**EP 1848841 A4 20100113 (EN)**

Application

**EP 05851687 A 20051114**

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- US 5871505 A 20050215
- US 7610605 A 20050215
- US 11616605 A 20050421

Abstract (en)

[origin: WO2006088519A2] This invention comprises an acidic aqueous solution for treating metal substrates to improve the adhesion bonding and corrosion protection which comprises effective amounts of water soluble trivalent chromium compounds, fluorozirconates, fluorometallic compounds, zinc compounds, thickeners, surfactants, and at least about 0.001 mole per liter of the acidic solution of at least one polyhydroxy and/or carboxylic compound as the stabilizing agent for the aqueous solution.

IPC 8 full level

**C23C 22/00** (2006.01)

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Citation (search report)

- [Y] WO 03040431 A2 20030515 - US NAVY [US], et al
- [Y] US 4578122 A 19860325 - CROTTY DAVID E [US]
- [Y] WO 03040437 A1 20030515 - US NAVY [US], et al
- See references of WO 2006088519A2

Cited by

CN111005013A; EP3305943A1; WO2018065564A1

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