

Title (en)

CONVERSION COATINGS FOR METAL SURFACES

Title (de)

KONVERSIONSSCHICHTEN FÜR METALLISCHE OBERFLÄCHEN

Title (fr)

COUCHES DE CONVERSION POUR SURFACES MÉTALLIQUES

Publication

**EP 3455392 A1 20190320 (DE)**

Application

**EP 17737207 A 20170505**

Priority

- DE 102016005656 A 20160511
- EP 2017000560 W 20170505

Abstract (en)

[origin: WO2017194187A1] The invention relates to an aqueous treatment solution for producing conversion coatings on metal surfaces, particularly on zinc or zinc alloy surfaces, said solution containing: Cr(III) ions at an amount of 0.1 g/l to 8.0 g/l, zirconium and/or titanium ions at an amount of 0.1 g/l to 15 g/l, organosilane-modified silicon oxide nanoparticles at an amount of between 0.1 g/l to 50 g/l, and fluoride at an amount of 0.1 g/l to 10 g/l. The claimed treatment solution allows metal materials to obtain a high level of corrosion protection, with the decorative and functional properties of the surfaces simultaneously being achieved or improved. It is also possible to avoid known problems when using heavy metal ions, particularly cobalt and chromium(VI) ions.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2017194187A1

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