

Title (en)

MULTI-STAGE PRE-TREATMENT METHOD FOR METAL COMPONENTS HAVING ZINC AND IRON SURFACES

Title (de)

MEHRSTUFIGES VORBEHANDLUNGSVERFAHREN FÜR METALLISCHE BAUTEILE MIT ZINK- UND EISENOBERFLÄCHEN

Title (fr)

PROCÉDÉ DE PRÉTRAITEMENT À ÉTAPES MULTIPLES POUR DES COMPOSANTS MÉTALLIQUES PRÉSENTANT DES SURFACES EN ZINC ET EN FER

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011067094A1] The invention relates to an acidic, aqueous, chromium-free composition (A) for the anti-corrosive treatment of steel and/or galvanized steel surfaces comprising metal ions (M) selected from ions at least of the elements nickel, cobalt, molybdenum, iron or tin and a multi-stage method applying the composition (A) for the anti-corrosive pre-treatment of metal components which have steel and/or galvanized steel surfaces. The invention further relates to metal surfaces of zinc or iron having a passive layer system comprising at least 30 mg/m² nickel and at least 10 mg/m² zircon, titanium and/or hafnium and sulfur, wherein nickel is present in metallic form at up to at least 30 At.-%, obtainable in a method according to the invention.

IPC 8 full level

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C23C 22/34 (2013.01 - EP US); **C23C 22/78** (2013.01 - EP US)

Citation (examination)

WO 2009041616 A1 20090402 - NIPPON PAINT CO LTD [JP], et al

Cited by

WO2021116320A1

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