

Title (en)

PROCESS AND COMPOSITION FOR TREATING METAL SURFACES USING TRIVALENT CHROMIUM COMPOUNDS

Title (de)

VERFAHREN UND ZUSAMMENSETZUNG ZUR BEHANDLUNG VON METALLOBERFLÄCHEN UNTER VERWENDUNG DREIWERDIGER CHROMVERBINDUNGEN

Title (fr)

PROCÉDÉ ET COMPOSITION POUR TRAITER DES SURFACES MÉTALLIQUES À L'AIDE DE COMPOSÉS DE CHROME TRIVALENT

Publication

EP 3704286 B1 20231206 (EN)

Application

EP 18804756 A 20181025

Priority

- US 201762578787 P 20171030
- US 2018057533 W 20181025

Abstract (en)

[origin: WO2019089347A1] Aqueous compositions useful as pretreatments prior to painting to reduce the formation of rust in the uncoated condition. The compositions consist essentially of water, a trivalent chromium compound with the formula $\text{Cr}(\text{HxPO}_4)_3$, where x can be 1.5 or 2, a silica compound, and optionally hydrogen peroxide. The composition may have a pH between about 1 and about 4. A process for treating a metal surface includes contacting the surface with such aqueous compositions. The compositions and the processes provide benefits in comparison to the zinc phosphate metal pretreatment thought to be the standard in the industry.

IPC 8 full level

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CPC (source: EP KR US)

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