

Title (en)

METHOD FOR PRODUCING RUST-PROOF MEMBER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ROSTSICHEREN ELEMENTS

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN ÉLÉMENT RÉSISTANT À LA ROUILLE

Publication

EP 4123051 A1 20230125 (EN)

Application

EP 21864137 A 20210820

Priority

- JP 2021030556 W 20210820
- JP 2020148790 A 20200904

Abstract (en)

A reactive chemical conversion treatment liquid capable of forming a Si-containing chemical conversion film is provided. The chemical conversion treatment liquid contains colloidal silica, a trivalent chromium-containing water-soluble substance, and a high pKa organic acid-containing water-soluble substance such as a hydroxymonocarboxylic acid and may further contain a film-formable metal-containing water-soluble substance in a preferred embodiment, and the pH of the chemical conversion treatment liquid is 3.0 or more.

IPC 8 full level

C23C 22/30 (2006.01)

CPC (source: EP US)

C23C 22/30 (2013.01 - US); **C23C 22/53** (2013.01 - EP); **C23C 22/50** (2013.01 - EP); **C23C 2222/10** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4123051 A1 20230125; **EP 4123051 A4 20231025**; CN 115362284 A 20221118; JP 2022043493 A 20220316; JP 6868313 B1 20210512; US 2023140575 A1 20230504; WO 2022050079 A1 20220310

DOCDB simple family (application)

EP 21864137 A 20210820; CN 202180026107 A 20210820; JP 2020148790 A 20200904; JP 2021030556 W 20210820; US 202117995177 A 20210820