Title (en)

METHOD FOR SEQUENTIALLY CONSTRUCTING A CONVERSION LAYER ON COMPONENTS COMPRISING STEEL SURFACES

Title (de)

VERFAHREN FÜR DEN SEQUENZIELLEN AUFBAU EINER KONVERSIONSSCHICHT AUF BAUTEILEN UMFASSEND STAHLOBERFLÄCHEN

Title (fr)

PROCÉDÉ DE CONSTRUCTION SÉQUENTIELLE D'UNE COUCHE DE CONVERSION SUR DES COMPOSANTS PRÉSENTANT DES SURFACES EN ACIER

Publication

EP 4363632 A2 20240508 (DE)

Application

EP 22741234 A 20220630

Priority

- EP 21183374 A 20210702
- EP 2022068099 W 20220630

Abstract (en)

[origin: WO2023275270A2] The invention relates to a method for the anti-corrosion pre-treatment of a plurality of components in series, in which the components of the series are at least partially formed of iron and/or steel, and in which the components of the series each initially undergo a first conversion stage, followed by a rinsing stage and a subsequent second conversion stage, wherein, in the conversion stages, respective acidic aqueous conversion solutions based on compounds of the elements Zr and/or Ti dissolved in water are brought into contact with the components, and, additionally, copper ions are contained in the conversion solution for the second stage.

IPC 8 full level

C23C 22/34 (2006.01); **C23C 22/73** (2006.01); **C23C 22/76** (2006.01); **C25D 13/20** (2006.01)

CPC (source: EP KR US)

C23C 22/34 (2013.01 - EP KR); **C23C 22/73** (2013.01 - EP); **C23C 22/76** (2013.01 - EP KR); **C23C 22/80** (2013.01 - US); **C25D 3/22** (2013.01 - KR); **C25D 3/44** (2013.01 - KR); **C25D 13/20** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4112773 A1 20230104; CA 3225205 A1 20230105; CN 117580973 A 20240220; EP 4363632 A2 20240508; KR 20240025553 A 20240227; US 2024124982 A1 20240418; WO 2023275270 A2 20230105; WO 2023275270 A3 20230309

DOCDB simple family (application)

EP 21183374 A 20210702; CA 3225205 A 20220630; CN 202280046241 A 20220630; EP 2022068099 W 20220630; EP 22741234 A 20220630; KR 20237045040 A 20220630; US 202318543174 A 20231218