

Title (en)

TRIVALENT CHROMIUM PLATING SOLUTION AND METHOD FOR CHROMIUM-PLATING USING SAME

Title (de)

DREIWERTIGE CHROMBESCHICHTUNGSLÖSUNG UND VERFAHREN ZUM VERCHROMEN UNTER VERWENDUNG DERSELBEN

Title (fr)

SOLUTION DE PLACAGE AU CHROME TRIVALENT ET PROCÉDÉ DE PLACAGE AU CHROME L'UTILISANT

Publication

EP 3725920 A1 20201021 (EN)

Application

EP 18889584 A 20181212

Priority

- JP 2017238232 A 20171213
- JP 2018083550 A 20180425
- JP 2018045593 W 20181212

Abstract (en)

A trivalent chromium plating solution having a high plating deposition rate and being practical is provided with a trivalent chromium plating solution containing a trivalent chromium compound, a complexing agent, potassium sulfate and ammonium sulfate as a conductive salt, a pH buffer, and a sulfur-containing organic compound, containing a carboxylic acid having two or more hydroxy groups and two or more carboxy groups or a salt thereof as the complexing agent, and containing a combination of saccharin or a salt thereof and a sulfur-containing organic compound having an allyl group as the sulfur-containing organic compound.

IPC 8 full level

C25D 3/06 (2006.01)

CPC (source: EP KR US)

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EP 3725920 A1 20201021; **EP 3725920 A4 20210421**; CN 111465719 A 20200728; JP 6951465 B2 20211020; JP WO2019117178 A1 20201217; KR 20200096239 A 20200811; US 2021172081 A1 20210610; WO 2019117178 A1 20190620

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EP 18889584 A 20181212; CN 201880080570 A 20181212; JP 2018045593 W 20181212; JP 2019559679 A 20181212; KR 20207017354 A 20181212; US 201816770357 A 20181212