

Title (en)

Process for pickling and passivating stainless steel without using nitric acid

Title (de)

Verfahren zum Beizen und Passivieren von rostfreiem Stahl ohne Verwendung von Salpetersäure

Title (fr)

Procédé de décapage et de passivation de l'acier inoxydable sans utilisation de l'acide nitrique

Publication

EP 0505606 B2 20030226 (EN)

Application

EP 91113628 A 19910814

Priority

IT MI910879 A 19910329

Abstract (en)

[origin: EP0505606A1] A process for pickling and passivating stainless steel using a bath of the following initial composition: H₂SO₄ at least 150 g/l Fe³⁺ at least 15 g/l HF at least 40 g/l stabilized H₂O₂ 1-20 g/l non-ionic surfactants and acid attack inhibitors 1 g/l, into which an air flow and an H₂O₂ quantity of between 0.3 and 1 g/l per hour, controlled to maintain the bath Redox potential at ≥ 350 mV, are fed in continuously.

IPC 1-7

C23G 1/08; **C23C 22/34**

IPC 8 full level

C23C 22/34 (2006.01); **C23G 1/04** (2006.01); **C23G 1/08** (2006.01)

CPC (source: EP)

C23C 22/34 (2013.01); **C23G 1/00** (2013.01); **C23G 1/086** (2013.01)

Cited by

CN108220937A; EP0922787A1; FR2772050A1; EP0582121A1; EP0776256A4; EP0592892A1; DE4237021C1; EP0596273A1; EP0974682A1; EP0769575A1; US5843240A; DE102012024542A1; US6171409B1; EP0792949A1; FR2745301A1; US5851304A; US5992196A; DE4417284A1; DE4417284C2; GB2499000A; WO2004035861A1; US8192556B2; US10392710B2; EP1793016A1; CN113906162A; EP3951014A4; US7229506B2; US6565735B1; WO03044244A1; WO9931296A1; WO2013113811A1; US9487741B2

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DOCDB simple family (publication)

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