

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 A1 19920930 (EN)**

Application

**EP 91113628 A 19910814**

Priority

IT MI910879 A 19910329

Abstract (en)

A process for pickling and passivating stainless steel using a bath of the following initial composition: H<sub>2</sub>SO<sub>4</sub> at least 150 g/l Fe<sub>3</sub><+> at least 15 g/l HF at least 40 g/l stabilized H<sub>2</sub>O<sub>2</sub> 1-20 g/l non-ionic surfactants and acid attack inhibitors 1 g/l, into which an air flow and an H<sub>2</sub>O<sub>2</sub> 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

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

IPC 8 full level

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CPC (source: EP)

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

Citation (search report)

- [YD] EP 0188975 A1 19860730 - CHETREFF BERNARD
- [AD] GB 2000196 A 19790104 - TOKAI ELECTRO CHEMICAL CO
- [Y] PATENT ABSTRACTS OF JAPAN vol. 11, no. 80 (C-409)(2527) 11 March 1987 & JP-A-61 235 581 (C UYEMURA AND CO LTD) 20 October 1986
- [Y] PATENT ABSTRACTS OF JAPAN vol. 6, no. 106 (C-108)(984) 16 June 1982 & JP-A-57 035 686 (KAWASAKI SEITETSU K.K.) 26 February 1982

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