

Title (en)

METHOD FOR THE ACID ETCHING OF STAINLESS STEEL PRODUCTS

Publication

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Application

EP 86904835 A 19860728

Priority

FR 8514220 A 19850919

Abstract (en)

[origin: FR2587369A1] Method for etching stainless steel products wherein an etching bath is used which has the following ignition composition: HF 10 to 50 g/l; dissolved ferric iron (Fe^{3+}) ≥ 15 g/l; water: the remainder, at a temperature comprised between 15 and 70°C, characterized in that during the etching operation or operations, the content of ferric iron of the bath is maintained at at least 15 g/l by oxidation of the bath comprising at least one or a plurality of air injections with a total flow rate higher or equal to 1 Nm³ per m² of etched stainless steel and per hour (h) of etching of each etched surface element. The method of the invention is particularly applicable to the industrial etching of sheets and bands of stainless steel, and avoids the utilization of nitric acid and the pollutions resulting therefrom.

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C23G 1/08

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Cited by

DE19850524C2; US5843240A; IT202000005848A1; US6554908B1; IT201900006672A1; WO2021101076A1; KR20210062272A

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