

Title (en)
APPARATUS FOR CHEMICAL TREATMENT OF METAL

Publication
EP 0506000 A3 19930224 (DE)

Application
EP 92105107 A 19920325

Priority
DE 4110423 A 19910329

Abstract (en)
[origin: EP0506000A2] An apparatus for chemical treatment of metal, in particular for pickling or etching raw metallic products and semifinished and finished products, in which the flow of the chemicals and rinsing water used is designed so as to result in a circulatory system without effluent water or waste, is characterised by a pretreatment station (1) in which coarse scale, rust and other oxide layers are removed from the metal surface, a metal treatment station (3) in which the metallic product to be treated is processed chemically, in particular etched or pickled, by means of iron(III) chloride solution and the desired processing finish is achieved, a regeneration plant (4) in which the iron chloride solution used in the metal treatment station is chemically or, in particular, electrochemically regenerated without residue, a rinsing station (6) in which the chemicals used to treat the product chemically are removed without residue from its surface, and a rinsing water concentrating system (7) in which the concentration of the chemicals rinsed off is increased to the desired specified value. <IMAGE>

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C23G 1/36; **C23F 1/46**; **C23G 3/00**; **C23F 1/08**

IPC 8 full level
C23F 1/08 (2006.01); **C23F 1/46** (2006.01); **C23G 1/36** (2006.01); **C23G 3/00** (2006.01)

CPC (source: EP)
C23F 1/08 (2013.01); **C23F 1/46** (2013.01); **C23G 1/36** (2013.01); **C23G 3/00** (2013.01)

Citation (search report)
• [YD] EP 0346510 A1 19891220 - CHEMA CHEMIEMASCHINEN GMBH [DE]
• [Y] FR 2457331 A1 19801219 - MINEMET RECH SA
• [Y] FR 2278796 A1 19760213 - HOELLMUELLER MASCHBAU H [DE]
• [A] FR 2314900 A1 19770114 - NISO STE CIVILE ETUD RECH [FR]
• [A] EP 0018848 A1 19801112 - ELECTRICITY COUNCIL [GB]
• [Y] PATENT ABSTRACTS OF JAPAN vol. 5, no. 184 (C-80)(856) 21. November 1981 & JP-A-56 108 885 (MITSUBISHI JUKOGYO) 28. August 1981

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