

Title (en)
PROCESS FOR FACILITATING THE COLD-FORMING OF STAINLESS STEEL

Publication
EP 0232929 B1 19900328 (DE)

Application
EP 87200060 A 19870116

Priority
JP 1075286 A 19860121

Abstract (en)
[origin: EP0232929A1] 1. Method for facilitating the cold-working of stainless steel by the application of an oxalate coating and subsequent thereto of a lubricant, characterised in that the oxalate coating is applied by contact with an oxalating solution which consists of 20 to 100 g/l oxalic acid, 5 to 50 g/l hydroxylammoniumsulphate, 0.3 to 3 g/l water-soluble polymer and 0.1 to 10 g/l sodium thiosulphate, optionally fluoride and/or chloride additives and constituents of the treated stainless steel which dissolve and usual impurities remainder water.

IPC 1-7
C23C 22/46

IPC 8 full level
B21C 9/00 (2006.01); **C23C 22/46** (2006.01)

CPC (source: EP)
C23C 22/46 (2013.01)

Cited by
CN113454196A; US2022119730A1; WO2021170707A1; WO2021170706A1; WO2022207901A1; WO2020165035A1

Designated contracting state (EPC)
AT BE DE FR IT SE

DOCDB simple family (publication)
EP 0232929 A1 19870819; EP 0232929 B1 19900328; AT E51423 T1 19900415; DE 3700933 A1 19870730; DE 3762053 D1 19900503; JP H0129872 B2 19890614; JP S62170484 A 19870727

DOCDB simple family (application)
EP 87200060 A 19870116; AT 87200060 T 19870116; DE 3700933 A 19870115; DE 3762053 T 19870116; JP 1075286 A 19860121