

Title (en)
WIRE DRAWING PROCESS

Publication
EP 0270836 B1 19910717 (DE)

Application
EP 87116218 A 19871104

Priority
JP 26565686 A 19861110

Abstract (en)
[origin: US4808245A] An improved method for drawing iron or steel rod subjects the rod to a titanium based conditioning agent prior to application of a dry powder soap lubricant and subsequent to descaling and any phosphating step.

IPC 1-7
C23C 22/62; **C23C 22/83**

IPC 8 full level
B21C 9/00 (2006.01); **C23C 22/07** (2006.01); **C23C 22/62** (2006.01); **C23C 22/83** (2006.01)

CPC (source: EP US)
C23C 22/62 (2013.01 - EP US); **C23C 22/83** (2013.01 - EP US)

Cited by
DE3922464A1; EP0412788A1; EP3640368A1; ES2050625A1; WO9118962A1; WO2017077124A1

Designated contracting state (EPC)
AT BE CH DE ES FR IT LI NL SE

DOCDB simple family (publication)
US 4808245 A 19890228; AT E65267 T1 19910815; CA 1313994 C 19930302; DE 3737368 A1 19880511; DE 3771459 D1 19910822; EP 0270836 A1 19880615; EP 0270836 B1 19910717; ES 2023171 B3 19920101; JP 2510629 B2 19960626; JP S63238921 A 19881005

DOCDB simple family (application)
US 11608787 A 19871103; AT 87116218 T 19871104; CA 551157 A 19871105; DE 3737368 A 19871104; DE 3771459 T 19871104; EP 87116218 A 19871104; ES 87116218 T 19871104; JP 28206287 A 19871110