

Title (en)

DEVICE FOR APPLYING A DESCALING AGENT TO THE INNER SURFACE OF A LOOP

Publication

EP 0309945 B1 19920520 (DE)

Application

EP 88115722 A 19880923

Priority

CH 377787 A 19870929

Abstract (en)

[origin: EP0309945A2] The invention relates to a device for applying a descaling agent to the inner surface of a red-hot hollow blank in the production of seamless tubes.

IPC 1-7

B08B 9/02; **B21B 45/04**; **B24C 3/32**; **C23G 3/04**

IPC 8 full level

B21B 45/08 (2006.01); **B05C 7/08** (2006.01); **B05D 7/22** (2006.01); **B08B 9/02** (2006.01); **B21B 23/00** (2006.01); **B21B 45/04** (2006.01); **B21C 43/00** (2006.01); **B24C 3/32** (2006.01); **C23G 3/04** (2006.01)

CPC (source: EP US)

B21B 45/04 (2013.01 - EP US); **B24C 3/327** (2013.01 - EP US); **C23G 3/04** (2013.01 - EP US)

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0309945 A2 19890405; **EP 0309945 A3 19900530**; **EP 0309945 B1 19920520**; AT E76335 T1 19920615; CA 1314793 C 19930323; CH 674164 A5 19900515; CN 1020073 C 19930317; CN 1032422 A 19890419; CS 274438 B2 19910411; CS 648088 A2 19900814; DE 3871309 D1 19920625; ES 2031564 T3 19921216; JP 2737168 B2 19980408; JP H01107917 A 19890425; MX 170721 B 19930909; SU 1620043 A3 19910107; US 5102468 A 19920407; YU 178488 A 19931020

DOCDB simple family (application)

EP 88115722 A 19880923; AT 88115722 T 19880923; CA 577433 A 19880915; CH 377787 A 19870929; CN 88106768 A 19880914; CS 648088 A 19880929; DE 3871309 T 19880923; ES 88115722 T 19880923; JP 24220688 A 19880927; MX 1318488 A 19880928; SU 4356492 A 19880921; US 69699691 A 19910503; YU 178488 A 19880922