

Title (en)

Device and method for spraying pickling and/or washing liquid onto a metallic band

Title (de)

Vorrichtung und Verfahren zum Aufspritzen von Beiz- und/oder Spülflüssigkeit auf ein metallisches Band

Title (fr)

Dispositif et procédé de pulvérisation de liquide de décapage et/ou de lavage sur une bande métallique

Publication

EP 2145981 A3 20140402 (DE)

Application

EP 09009126 A 20090713

Priority

DE 102008032933 A 20080712

Abstract (en)

[origin: EP2145981A2] Spray for applying etching or cleaning fluid (11) to metal strip (12) comprises an outer pipe (16) with one closed end which has jets (14) along its length. A second pipe (17) which is open at both ends is mounted coaxially in the first pipe and terminates before it reaches its closed end. An independent claim is included for operating the spray in which fluid is fed under pressure simultaneously through the open end of the outer pipe and the adjacent end of the inner pipe, so that it strike the closed end of the outer pipe and flows back turbulently through the space between the two pipes.

IPC 8 full level

C23G 3/02 (2006.01); **B08B 3/02** (2006.01); **B08B 3/04** (2006.01); **B08B 3/08** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP US)

B05B 1/20 (2013.01 - EP); **B05B 1/34** (2013.01 - EP US); **B08B 3/022** (2013.01 - EP); **C23G 3/023** (2013.01 - EP); **B05B 15/658** (2018.01 - EP)

Citation (search report)

- [AD] EP 1122338 B1 20070228 - SMS DEMAG AG [DE]
- [A] BE 1003788 A5 19920616 - COCKERILL SAMBRE SA
- [A] DE 2627957 A1 19780105 - HAMMELMANN PAUL MASCHF

Cited by

EP2801409A1; EP2801408A1; CN110592653A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2145981 A2 20100120; **EP 2145981 A3 20140402**; **EP 2145981 B1 20150610**; DE 102008032933 A1 20100114

DOCDB simple family (application)

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