

Title (en)

Descaling device for a continuously cast metal strip

Title (de)

Entzunderungsvorrichtung für ein stranggegossenes Metallband

Title (fr)

Dispositif de décalaminage pour une bande métallique coulée en continu

Publication

EP 1077095 A3 20031029 (DE)

Application

EP 00116996 A 20000808

Priority

DE 19938705 A 19990814

Abstract (en)

[origin: US6385832B1] A descaling device for hydromechanically descaling metal strip has a descaling spray arrangement with first and second spray nozzles arranged adjacent to one another in first and second spray nozzle rows transverse to the transport direction with several first and second spray nozzle rows successively arranged in the transport direction above a top side and underneath a bottom side of the metal strip. The first and second spray nozzles spray a high pressure water jet onto the top and bottom sides. First catch troughs are correlated with the first spray nozzles and catch water of the high pressure water jets of the first spray nozzles. The first spray nozzle rows together with the first catch troughs are pivotable about a pivot axis and vertically adjustable relative to the top side by a signal from a measuring device. The first catch troughs are pivotable independently of the first water spray nozzles counter to the transport direction about a pivot point and vertically adjustable and automatically yielding relative to the top side. The first spray nozzle rows are arranged in first spray beams, wherein each spray beam has a lever and is freely pivotable about the pivot point of the first catch troughs in order to be vertically adjustable and automatically yielding relative to the top side.

IPC 1-7

B21B 45/08

IPC 8 full level

B21B 45/08 (2006.01); **B21B 39/00** (2006.01)

CPC (source: EP US)

B21B 45/08 (2013.01 - EP US); **B21B 39/006** (2013.01 - EP US); **Y10T 29/45** (2015.01 - EP US); **Y10T 29/4528** (2015.01 - EP US); **Y10T 29/4533** (2015.01 - EP US); **Y10T 29/4544** (2015.01 - EP US); **Y10T 29/4572** (2015.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 292 (M - 729) 10 August 1988 (1988-08-10)
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US 6385832 B1 20020514; AT E314894 T1 20060215; BR 0003485 A 20010403; CA 2315938 A1 20010214; CA 2315938 C 20081125; DE 19938705 A1 20010215; DE 50012007 D1 20060330; EP 1077095 A2 20010221; EP 1077095 A3 20031029; EP 1077095 B1 20060104; ES 2254081 T3 20060616; JP 2001071022 A 20010321; JP 4671479 B2 20110420; MX PA00007939 A 20041110

DOCDB simple family (application)

US 63755400 A 20000811; AT 00116996 T 20000808; BR 0003485 A 20000810; CA 2315938 A 20000814; DE 19938705 A 19990814; DE 50012007 T 20000808; EP 00116996 A 20000808; ES 00116996 T 20000808; JP 2000244364 A 20000811; MX PA00007939 A 20000814