

Title (en)

Roll cooling and/or lubricating device for cold strip rolling mills, in particular fine strip and foil rolling mills

Title (de)

Walzenkühl- und/oder Schmiervorrichtung für Kaltbandwalzwerke, insbesondere Feinband- und Folienwalzwerke

Title (fr)

Dispositif pour refroidir et/ou lubrifier des cylindres de laminoirs pour feuillards à froid, notamment feuillards fins et feuilles minces

Publication

EP 1142653 A3 20040102 (DE)

Application

EP 01107353 A 20010324

Priority

DE 10017579 A 20000408

Abstract (en)

[origin: EP1142653A2] Roller cooling and/or lubricating device has nozzle crosspieces (7, 8) which pivot along its longitudinal axis by means of a drive (29) and move in the direction of the longitudinal axis using an adjusting cylinder (26). Preferred Features: Adapters (17) are arranged at both ends of the crosspieces on bearing pins (18) which are built into the side screens (20) on both roll stands of a rolling mill (1).

IPC 1-7

B21B 37/32; **B21B 27/10**

IPC 8 full level

B21B 27/10 (2006.01); **B21B 37/32** (2006.01); **B21B 1/40** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP US)

B21B 27/10 (2013.01 - EP US); **B21B 37/32** (2013.01 - EP US); **B21B 1/40** (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US)

Citation (search report)

- [AD] DE 3419261 A1 19851128 - ACHENBACH BUSCHHUETTEN GMBH [DE]
- [A] EP 0542640 A1 19930519 - UNITED ENGINEERING INC [US], et al
- [A] GB 2207373 A 19890201 - SVATOS JOSEPH DONALD
- [A] EP 0374538 A2 19900627 - NORANDAL USA INC [US]
- [AD] DE 9418359 U1 19950112 - ACHENBACH BUSCHHUETTEN GMBH [DE]
- [A] US 5460023 A 19951024 - GINZBURG VLADIMIR B [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 217 (M - 1594) 19 April 1994 (1994-04-19)

Cited by

CN104105554A; CN111589863A; CN102974617A; EP1775039A1; CN114535300A; WO2011134219A1; WO2011134216A1; US9566623B2; EP3251762A1; WO2017207622A1; US11440067B2

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DOCDB simple family (publication)

EP 1142653 A2 20011010; **EP 1142653 A3 20040102**; **EP 1142653 B1 20050209**; DE 10043281 A1 20011018; DE 10043281 B4 20040415; DE 50105274 D1 20050317; JP 2001347305 A 20011218; US 6598448 B1 20030729

DOCDB simple family (application)

EP 01107353 A 20010324; DE 10043281 A 20000902; DE 50105274 T 20010324; JP 2001107111 A 20010405; US 82770501 A 20010406