

Title (en)  
DUPLEX COLD ROLLING LINE

Title (de)  
DUPLEX-KALTWALZSTRASSE

Title (fr)  
LIGNE DE LAMINAGE À FROID EN DUPLEX

Publication  
**EP 3296032 A1 20180321 (EN)**

Application  
**EP 17185335 A 20170808**

Priority  
TW 105130108 A 20160919

Abstract (en)  
A duplex cold rolling line (1) includes a feeding unit (2), a first rolling unit (3), a furnace and descaling unit (4), a pickling unit (5), a second rolling unit (7) and an exit unit (8). The feeding unit (2) is adapted to unroll a hot-rolled coil to form an unrolled steel strip. The first rolling unit (3) includes at least two juxtaposed first rolling machines (31) adapted to perform a first-pass rolling operation on the unrolled steel strip. The furnace and descaling unit (4) is adapted to perform an annealing and descaling operation on the unrolled steel strip after completion of the first-pass rolling operation. The pickling unit (5) is adapted to perform a pickling operation on the unrolled steel strip after completion of the annealing and descaling operation. The second rolling unit (7) includes five juxtaposed second rolling machines (71) adapted to perform a second-pass rolling operation on the unrolled steel strip. The exit unit (8) is adapted to roll the unrolled steel strip to form a cold-rolled coil.

IPC 8 full level  
**B21B 1/28** (2006.01); **C21D 8/02** (2006.01)

CPC (source: CN EP)  
**B21B 1/28** (2013.01 - EP); **B21B 1/30** (2013.01 - CN); **B21B 1/40** (2013.01 - CN); **B21B 15/00** (2013.01 - CN); **B21B 39/00** (2013.01 - CN); **B21B 45/0269** (2013.01 - CN); **C21D 8/0236** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C21D 9/56** (2013.01 - EP); **B21B 1/40** (2013.01 - EP); **B21B 38/00** (2013.01 - EP); **B21B 45/06** (2013.01 - EP); **B21B 2001/221** (2013.01 - CN); **B21B 2265/14** (2013.01 - EP); **C21D 8/0268** (2013.01 - EP)

Citation (search report)

- [IY] EP 0837147 A2 19980422 - AVESTA SHEFFIELD AB [SE]
- [Y] JP H0751727 A 19950228 - KAWASAKI STEEL CO, et al
- [Y] US 6478899 B1 20021112 - LEGRAND HUGUES [US], et al
- [Y] EP 0613736 A1 19940907 - HITACHI LTD [JP]
- [A] WO 0037189 A1 20000629 - AVESTA SHEFFIELD AKTIEBOLAG PU [SE], et al
- [A] JP S5961503 A 19840407 - NIPPON KOKAN KK

Cited by  
CN113399456A; CN113302006A; US2022177989A1; WO2020157377A1; TWI816971B

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3296032 A1 20180321**; CN 107838193 A 20180327; TW 201811456 A 20180401; TW I625172 B 20180601

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**EP 17185335 A 20170808**; CN 201611130284 A 20161209; TW 105130108 A 20160919