

Title (en)
Hot rolling plant

Title (de)
Warmwalzanlage

Title (fr)
Installation de laminage à chaud

Publication
EP 0845308 B1 20030219 (DE)

Application
EP 97119945 A 19971114

Priority
DE 19649295 A 19961128

Abstract (en)
[origin: EP0845308A1] The hot-rolling installation for flat products includes at least two continuous casting units (1, 1'), each followed by shears (2, 2') and a tunnel furnace (3, 3'). The installation further includes a transfer vehicle, a shared preliminary section (10), a finish section (12) and a cooling section (15), as well as at least one winding unit (17, 18). The installation is characterised by the fact that a connector unit (4) for the joining slabs corresponding to the desired coil weights is located between the tunnel furnace (3, 3') and the preliminary section (10). Also claimed are a connector unit and a method for operating the proposed hot-rolling installation.

IPC 1-7
B21B 15/00

IPC 8 full level
B22D 11/12 (2006.01); **B21B 1/26** (2006.01); **B21B 1/46** (2006.01); **B21B 13/22** (2006.01); **B21B 15/00** (2006.01)

CPC (source: EP KR US)
B21B 1/26 (2013.01 - KR); **B21B 1/466** (2013.01 - EP KR US); **B21B 15/0085** (2013.01 - EP KR US); **B21B 1/26** (2013.01 - EP US); **Y10T 29/49991** (2015.01 - EP US); **Y10T 29/5184** (2015.01 - EP US)

Cited by
EP4122614A1; US6457227B1; WO9929445A1; WO2017140891A1; WO2011080064A2; DE102009060824A1; DE102010008292A1; WO2011101231A1; DE102010008292B4

Designated contracting state (EPC)
AT BE DE ES FI FR GB IT NL SE

DOCDB simple family (publication)
EP 0845308 A1 19980603; **EP 0845308 B1 20030219**; AR 010661 A1 20000628; AT E232761 T1 20030315; BR 9706677 A 20020709; CA 2221423 A1 19980528; CA 2221423 C 20050426; CN 1104973 C 20030409; CN 1186003 A 19980701; DE 19649295 A1 19980604; DE 59709345 D1 20030327; ES 2192644 T3 20031016; ID 18989 A 19980528; JP H10211504 A 19980811; KR 100506186 B1 20050926; KR 19980042752 A 19980817; MY 119126 A 20050331; RU 2216416 C2 20031120; TW 340809 B 19980921; US 2002095764 A1 20020725; US 6832432 B2 20041221

DOCDB simple family (application)
EP 97119945 A 19971114; AR P970105580 A 19971127; AT 97119945 T 19971114; BR 9706677 A 19971128; CA 2221423 A 19971113; CN 97126432 A 19971128; DE 19649295 A 19961128; DE 59709345 T 19971114; ES 97119945 T 19971114; ID 973741 A 19971124; JP 32156697 A 19971121; KR 19970062970 A 19971126; MY PI9705615 A 19971121; RU 97120580 A 19971127; TW 86117346 A 19971120; US 10788302 A 20020327