

Title (en)

METHOD AND INSTALLATION FOR THE CONTINUOUS PRODUCTION OF HOT-ROLLED, THIN FLAT PRODUCTS

Title (de)

PRODUKTIONSVERFAHREN UND -ANLAGE ZUR ENDLOSEN ERZEUGUNG VON WARMGEWALZTEN DÜNNEN FLACHPRODUKTEN

Title (fr)

PROCEDE ET INSTALLATION DE PRODUCTION CONTINUE DE PRODUITS PLATS ET MINCES LAMINES A CHAUD

Publication

EP 1047510 B1 20020424 (DE)

Application

EP 98962221 A 19981103

Priority

- DE 9803259 W 19981103
- DE 19758108 A 19971217

Abstract (en)

[origin: US6527882B1] A method and an installation for the endless production of hot-rolled, flat products from thin cast strip. The installation includes a casting machine for producing cast strip, a device for cooling the cast strip under inert gas, a single-stand roughing train, a multi-stand finishing train, a device for cooling, heating or maintaining the temperature of the hot-rolled strip, according to choice, between the roughing train and the finishing train, shears for separating the hot-rolled strip from coil to coil, a delivery roller table with devices for cooling the hot-rolled strip and with coiling machines arranged downstream of the finishing train for coiling up the finished strip.

IPC 1-7

B21B 1/26; **B21B 1/46**

IPC 8 full level

B21B 1/26 (2006.01); **B21B 1/46** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP US)

B21B 1/26 (2013.01 - EP US); **B21B 1/463** (2013.01 - EP US); **B21B 2045/0212** (2013.01 - EP US); **B21B 2201/02** (2013.01 - EP US); **B21B 2201/04** (2013.01 - EP US); **B21B 2201/16** (2013.01 - EP US); **B21B 2273/08** (2013.01 - EP US)

Cited by

WO2010066412A1; CN110612169A; CN107413850A; KR101332196B1; DE102008061206A1; DE102009032358A1; WO2008110330A1; DE102008013488A1; US9335164B2; TWI421138B

Designated contracting state (EPC)

AT BE DE ES FR GB IT LU NL SE

DOCDB simple family (publication)

US 6527882 B1 20030304; AT E216639 T1 20020515; AU 1749399 A 19990705; AU 745206 B2 20020314; CA 2314171 A1 19990624; CA 2314171 C 20070424; DE 19758108 C1 19990114; DE 59803943 D1 20020529; EP 1047510 A1 20001102; EP 1047510 B1 20020424; ES 2172948 T3 20021001; JP 2002508253 A 20020319; JP 4677097 B2 20110427; WO 9930847 A1 19990624

DOCDB simple family (application)

US 58186400 A 20000815; AT 98962221 T 19981103; AU 1749399 A 19981103; CA 2314171 A 19981103; DE 19758108 A 19971217; DE 59803943 T 19981103; DE 9803259 W 19981103; EP 98962221 A 19981103; ES 98962221 T 19981103; JP 2000538815 A 19981103