

Title (en)
CONTINUOUS CASTING INSTALLATION COMPRISING A SOFT REDUCTION SECTION

Title (de)
STRANGGIESSANLAGE MIT SOFT-REDUCTION-STRECKE

Title (fr)
INSTALLATION DE COULEE CONTINUE PRESENTANT UNE SECTION DE REDUCTION DOUCE

Publication
EP 1313579 B1 20040616 (DE)

Application
EP 01969503 A 20010725

Priority
• DE 10042079 A 20000826
• EP 0108574 W 20010725

Abstract (en)
[origin: WO0218077A1] The invention relates to a method and a device for the continuous casting of slabs or ingots, in particular of thin slabs in a continuous casting installation. Said installation comprises a soft reduction section in a continuous casting guide under the mould. The soft reduction section contains pressure rollers and support rollers (3, 4), which are continuously restrained in relation to one another, either individually or as a segment (1), by means of hydraulic cylinders (7, 7') and are restrained in a limiting manner by stops (30). The installation uses a hard-pressure restraining force in an area of the soft reduction section that has not yet completely solidified and a soft-pressure restraining force in an area of the soft reduction section that has completely solidified. Threshold and changeover values for the hard and soft pressure are defined in such a way that if the restraining force lies below the threshold or changeover value, the segment is restrained using hard pressure and if said restraining force lies above the threshold or changeover value, the segment is restrained using soft pressure.

IPC 1-7
B22D 11/12

IPC 8 full level
B22D 11/128 (2006.01); **B22D 11/12** (2006.01); **B22D 11/16** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP KR US)
B22D 11/12 (2013.01 - KR); **B22D 11/206** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0218077 A1 20020307; AT E269180 T1 20040715; AU 8974301 A 20020313; CA 2420604 A1 20030226; CA 2420604 C 20100119; CN 1280042 C 20061018; CN 1449314 A 20031015; DE 10042079 A1 20020425; DE 50102621 D1 20040722; EP 1313579 A1 20030528; EP 1313579 B1 20040616; ES 2220803 T3 20041216; JP 2004507363 A 20040311; KR 100796638 B1 20080122; KR 20030036708 A 20030509; TR 200401680 T4 20040823; US 2004026066 A1 20040212; US 6871693 B2 20050329

DOCDB simple family (application)
EP 0108574 W 20010725; AT 01969503 T 20010725; AU 8974301 A 20010725; CA 2420604 A 20010725; CN 01814710 A 20010725; DE 10042079 A 20000826; DE 50102621 T 20010725; EP 01969503 A 20010725; ES 01969503 T 20010725; JP 2002523037 A 20010725; KR 20037002405 A 20030219; TR 200401680 T 20010725; US 36225203 A 20030804