

Title (en)

METHOD FOR CONTINUOUSLY CASTING INGOTS, SLABS OR THIN SLABS

Title (de)

VERFAHREN ZUM STRANGGIESSEN VON BLÖCKEN, BRAMMEN ODER DÜNNBRAMMEN

Title (fr)

PROCEDE POUR LA COULEE CONTINUE DE BLOCS, DE BRAMES OU DE BRAMES MINCES

Publication

EP 1385656 A1 20040204 (DE)

Application

EP 02769128 A 20020502

Priority

- DE 10122118 A 20010507
- EP 0204801 W 20020502

Abstract (en)

[origin: WO02090019A1] The invention relates to a method for continuously casting ingots, slabs or thin slabs in a continuous casting plant. Said plant comprises strand guide segments (2.1 to 2.n) whose distances from one another can be adjusted underneath an ingot mold (1) and which have roll pairs (4, 4') that can be subjected to the action of path-controlled or position-controlled hydraulic cylinders. The thickness of the cast strand (5) is reduced by conically adjusting its strand guide segments in a soft reduction line extending up to the crater top. The aim of the invention is to improve the adaptation of the continuous casting plant to different operating parameters. To this end, at least one roll pair (4, 4') subjects the cast strand (5) to a size reduction in the area of its liquid core (7) between the ingot mold (1) and the soft reduction line (SR line). The invention also relates to a correspondingly designed continuous casting plant.

IPC 1-7

B22D 11/12

IPC 8 full level

B22D 11/16 (2006.01); **B22D 11/00** (2006.01); **B22D 11/12** (2006.01); **B22D 11/128** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP KR US)

B22D 11/12 (2013.01 - KR); **B22D 11/1206** (2013.01 - EP US)

Citation (search report)

See references of WO 02090019A1

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 02090019 A1 20021114; AT E285861 T1 20050115; CA 2446222 A1 20021114; CA 2446222 C 20090714; CN 1287932 C 20061206; CN 1529643 A 20040915; DE 10122118 A1 20021114; DE 50201906 D1 20050203; EP 1385656 A1 20040204; EP 1385656 B1 20041229; ES 2233864 T3 20050616; JP 2004528987 A 20040924; JP 4846969 B2 20111228; KR 100851899 B1 20080813; KR 20030090778 A 20031128; RU 2003135621 A 20050527; RU 2287401 C2 20061120; US 2004129405 A1 20040708; US 7025118 B2 20060411

DOCDB simple family (application)

EP 0204801 W 20020502; AT 02769128 T 20020502; CA 2446222 A 20020502; CN 02809560 A 20020502; DE 10122118 A 20010507; DE 50201906 T 20020502; EP 02769128 A 20020502; ES 02769128 T 20020502; JP 2002587137 A 20020502; KR 20037013785 A 20031022; RU 2003135621 A 20020502; US 47636103 A 20031028