

Title (en)
PROCESS FOR PRODUCING RECTANGULAR THIN SLABS

Title (de)
VERFAHREN ZUR ERZEUGUNG VON RECHTECK-DÜNNBRAMMEN

Title (fr)
PROCEDE DE PRODUCTION DE BRAMES MINCES RECTANGULAIRES

Publication
EP 0741617 B2 20020502 (DE)

Application
EP 95906265 A 19950120

Priority
• DE 9500089 W 19950120
• DE 4403048 A 19940128

Abstract (en)
[origin: WO9520444A1] The invention relates to a process and a continuous casting facility for the production of thin slabs, preferably of steel with a predetermined congealing thickness of (for example) 50 mm. In the said process, an optimal casting surface and internal quality, with minimal and predetermined congealing thickness and plant capacity, and thus minimal complexity of rolling material, is achieved by the optimal combination of such elements as the following: rolling of cast metal in the area of the casting guide (segment 0), cambered ingot mould with a cross-sectional area which increases from inlet to outlet, hydraulically driven lifting platform, casting powder and supply thereof, immersion discharge with specific flow cross section. Qualitative adjustment of these process and system parameters results in satisfactory supply of casting slag and circulation in the meniscus by comparison with a standard 200 mm thick slab. The conditions from the basin top to the meniscus have a direct effect on the superficial and interior quality of the casting and the reliability of the casting process.

IPC 1-7
B22D 11/12; **B22D 11/14**; **B22D 11/10**

IPC 8 full level
B22D 11/16 (2006.01); **B22D 11/00** (2006.01); **B22D 11/04** (2006.01); **B22D 11/10** (2006.01); **B22D 11/108** (2006.01); **B22D 11/111** (2006.01); **B22D 11/12** (2006.01); **B22D 11/128** (2006.01); **B22D 11/14** (2006.01); **B22D 11/18** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP)
B22D 11/111 (2013.01); **B22D 11/1206** (2013.01); **B22D 11/14** (2013.01)

Citation (opposition)
Opponent :
• DE 3423475 C2 19860717
• THE I.S.P. TECHNOLOGY, 4th International Iron and Steel Congress, Marrakech (Maroc), October 12-16, 1992

Designated contracting state (EPC)
AT BE DE DK ES FR GB IT LU NL

DOCDB simple family (publication)
WO 9520444 A1 19950803; AT E164102 T1 19980415; AU 1453195 A 19950815; BR 9506665 A 19970909; CA 2181902 A1 19950803; CN 1046450 C 19991117; CN 1139893 A 19970108; DE 4403048 C1 19950713; DE 59501651 D1 19980423; DK 0741617 T4 20020617; EP 0741617 A1 19961113; EP 0741617 B1 19980318; EP 0741617 B2 20020502; ES 2113730 T3 19980501; ES 2113730 T5 20021201; JP 3056252 B2 20000626; JP H09509615 A 19970930; KR 100355000 B1 20021231; RU 2121903 C1 19981120; ZA 95670 B 19950928

DOCDB simple family (application)
DE 9500089 W 19950120; AT 95906265 T 19950120; AU 1453195 A 19950120; BR 9506665 A 19950120; CA 2181902 A 19950120; CN 95191384 A 19950120; DE 4403048 A 19940128; DE 59501651 T 19950120; DK 95906265 T 19950120; EP 95906265 A 19950120; ES 95906265 T 19950120; JP 51981895 A 19950120; KR 19960704097 A 19960729; RU 96117380 A 19950120; ZA 95670 A 19950127