

Title (en)  
PROCESS FOR PRODUCING THIN SLABS

Title (de)  
VERFAHREN ZUR ERZEUGUNG VON DÜNNBRAMMEN

Title (fr)  
PROCEDE DE PRODUCTION DE BRAMES MINCES

Publication  
**EP 0734295 B2 20020502 (DE)**

Application  
**EP 95906269 A 19950120**

Priority  
• DE 9500095 W 19950120  
• DE 4403049 A 19940128

Abstract (en)  
[origin: WO9520445A1] 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 11/04** (2006.01); **B22D 11/00** (2006.01); **B22D 11/053** (2006.01); **B22D 11/10** (2006.01); **B22D 11/108** (2006.01); **B22D 11/111** (2006.01); **B22D 11/115** (2006.01); **B22D 11/12** (2006.01); **B22D 11/124** (2006.01); **B22D 11/128** (2006.01); **B22D 11/14** (2006.01); **B22D 27/02** (2006.01)

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

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 9520445 A1 19950803**; AT E164540 T1 19980415; AU 1453595 A 19950815; BR 9506653 A 19970916; CA 2181908 A1 19950803; CN 1046449 C 19991117; CN 1139892 A 19970108; DE 4403049 C1 19950907; DE 59501780 D1 19980507; DK 0734295 T3 19981019; DK 0734295 T4 20020617; EP 0734295 A1 19961002; EP 0734295 B1 19980401; EP 0734295 B2 20020502; ES 2114304 T3 19980516; ES 2114304 T5 20021116; JP 3085978 B2 20000911; JP H09508070 A 19970819; RU 2134178 C1 19990810; US 6568461 B1 20030527; ZA 95671 B 19950928

DOCDB simple family (application)  
**DE 9500095 W 19950120**; AT 95906269 T 19950120; AU 1453595 A 19950120; BR 9506653 A 19950120; CA 2181908 A 19950120; CN 95191381 A 19950120; DE 4403049 A 19940128; DE 59501780 T 19950120; DK 95906269 T 19950120; EP 95906269 A 19950120; ES 95906269 T 19950120; JP 51982395 A 19950120; RU 96117378 A 19950120; US 16777698 A 19981007; ZA 95671 A 19950127