

Title (en)  
Mould for continuous casting of metals

Title (de)  
Kokille zum Stranggiessen von Metallen

Title (fr)  
Coquille pour la coulée continue de métaux

Publication  
**EP 0730923 B1 20010919 (DE)**

Application  
**EP 96103229 A 19960302**

Priority  
DE 19508169 A 19950308

Abstract (en)  
[origin: EP0730923A1] Casting mould (1) for continuous metal-, pref. steel casting, has a casting cavity open at either end, with larger cross section at the upper, inlet end than at the outlet (5) for solidified steel. In the novel design, the cavity has a re-iterated conical construction and on the cooled surface, at least locally, there is a region (2) with increased thermal transfer coefficients. Pref. the axis of the mould is straight or curved, the cross section round, polygonal or I-shaped. The conicity is three-stage, or parabolic. The cooling surface is rough, with a mechanically-applied structure, with roughness depth Rt > 1.5 microns. Structural depressions, triangular, trapezoidal or round, are offset centre-to-centre by 1-10 mm. Various shapes may be used. The structuring is in the region of maximum heat evolution. Further preferred details are included.

IPC 1-7  
**B22D 11/04**

IPC 8 full level  
**B22D 11/04** (2006.01); **B22D 11/055** (2006.01); **B22D 11/059** (2006.01)

CPC (source: EP KR US)  
**B22C 9/00** (2013.01 - KR); **B22D 11/0406** (2013.01 - EP US); **B22D 11/055** (2013.01 - EP US); **B22D 11/059** (2013.01 - EP US)

Cited by  
CN1318164C; AT508822B1; EP3406368A1; EP0931609A1; CZ300075B6; US6926067B1; US9393614B2; WO2008017711A1; WO2008086856A1; WO2013156809A1; US10792729B2; WO03092931A1; WO03035306A1

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

DOCDB simple family (publication)  
**EP 0730923 A1 19960911; EP 0730923 B1 20010919**; AR 001173 A1 19970924; AT E205759 T1 20011015; BR 9600967 A 19971230; CA 2171388 A1 19960909; CA 2171388 C 20020716; CN 1063366 C 20010321; CN 1137429 A 19961211; DE 19508169 A1 19960912; DE 19508169 B4 20041014; DE 19508169 C5 20091112; DE 59607700 D1 20011025; DK 0730923 T3 20011231; ES 2161929 T3 20011216; IN 187265 B 20020316; JP H0947844 A 19970218; KR 100392759 B1 20031224; KR 960033606 A 19961022; MX 9600762 A 19970628; PL 179859 B1 20001130; PL 313107 A1 19960916; PT 730923 E 20020228; TW 364866 B 19990721; US 5797444 A 19980825; ZA 961921 B 19960729

DOCDB simple family (application)  
**EP 96103229 A 19960302**; AR 33566496 A 19960307; AT 96103229 T 19960302; BR 9600967 A 19960308; CA 2171388 A 19960308; CN 96102743 A 19960308; DE 19508169 A 19950308; DE 59607700 T 19960302; DK 96103229 T 19960302; ES 96103229 T 19960302; IN 385CA1996 A 19960301; JP 3977096 A 19960227; KR 19960005533 A 19960304; MX 9600762 A 19960227; PL 31310796 A 19960306; PT 96103229 T 19960302; TW 85101708 A 19960212; US 61264096 A 19960308; ZA 961921 A 19960308