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

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