

Title (en)  
CONTINUOUS-CASTING MOULD FOR STEEL STRIP

Publication  
**EP 0268910 A3 19890628 (DE)**

Application  
**EP 87116456 A 19871107**

Priority  
DE 3640525 A 19861127

Abstract (en)  
[origin: US4811779A] The invention provides a mold for the continuous casting of steel strip. The mold is arranged with a mold cavity having a longitudinal axis parallel to the casting direction. The width of the cavity in its upstream area is sufficient to provide at least the required minimum spacing between the pouring tube and the walls of the mold. The mold comprises side- and end-walls arranged respectively to define a cavity having three portions, the first being of substantially the same parallelepipedal cross-section as the strip being cast; the second being a flared area in the upper central area of the mold to accommodate a pouring tube, wherein the side-walls are tapered inwardly from the upper part of the mold to a lower point at which the cross-section of the mold approximates the size and shape of the strip being cast; and the third being a strand shell formation initialization zone in the flared area having walls extending in substantial alignment with the longitudinal axis of the mold from the surface level of the molten bath at which the strand shell starts to form, to a point where the strand shell is sufficiently thick to withstand tapering inwardly without wrinkling or rupturing.

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

IPC 8 full level  
**B22D 11/041** (2006.01); **B22D 11/04** (2006.01)

CPC (source: EP KR US)  
**B22D 11/0408** (2013.01 - EP US); **B22D 11/10** (2013.01 - KR)

Citation (search report)  
• [X] US 4207941 A 19800617 - SHRUM LORNE R [CA]  
• [Y] EP 0149734 A2 19850731 - SCHLOEMANN SIEMAG AG [DE]  
• [Y] DE 2409820 A1 19750904 - BENTELER GEB PADERWERK  
• [YD] DE 887990 C 19530827 - ROSSI IRVING  
• [Y] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 163 (M-152)[1041], 26. August 1982; & JP-A-57 079 047 (NIPPON KOKAN K.K.) 18-05-1982

Cited by  
EP0920936A3; EP0564860A1; EP1002599A1; EP0904873A1; CN1106238C; EP0552501A3; DE4201363C2; DE19801822C1; DE4131829A1; EP0379072A3; US6186220B1; WO9901244A1; WO0200371A1

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

DOCDB simple family (publication)  
**EP 0268910 A2 19880601; EP 0268910 A3 19890628; EP 0268910 B1 19910904**; AT E66839 T1 19910915; BR 8706402 A 19880719; CN 1010194 B 19901031; CN 87108058 A 19880706; DD 262822 A5 19881214; DE 3640525 A1 19880601; DE 3640525 C2 19960215; DE 3772717 D1 19911010; ES 2023876 B3 19920216; GR 3002667 T3 19930125; IN 170153 B 19920215; JP H0787969 B2 19950927; JP S63140743 A 19880613; KR 880005978 A 19880721; KR 960004417 B1 19960403; MX 169480 B 19930707; SU 1597092 A3 19900930; UA 6336 A1 19941229; US 4811779 A 19890314; ZA 877349 B 19890530

DOCDB simple family (application)  
**EP 87116456 A 19871107**; AT 87116456 T 19871107; BR 8706402 A 19871126; CN 87108058 A 19871127; DD 30888187 A 19871110; DE 3640525 A 19861127; DE 3772717 T 19871107; ES 87116456 T 19871107; GR 910401277 T 19910906; IN 813MA1987 A 19871110; JP 29788287 A 19871127; KR 870012882 A 19871116; MX 941487 A 19871119; SU 4203562 A 19871102; UA 4203562 A 19871102; US 12924787 A 19871207; ZA 877349 A 19870930