

Title (en)  
PERMANENT MOLD FOR VERTICAL CONTINUOUS CASTING OF STEEL STRIP

Publication  
**EP 0300219 A3 19900214 (DE)**

Application  
**EP 88109999 A 19880623**

Priority  
DE 3723857 A 19870718

Abstract (en)  
[origin: JPS6431558A] PURPOSE: To uniformize the quality of a steel strip and to prevent the occurrence of defects by dividedly forming wide width side walls at both sides in the casting range of a mold into a parallel lower side portion and an upper side portion covering the predetermined bath surface and inclining the upper side portion in a specific angle. CONSTITUTION: A cavity is formed with two faced wide width side walls 1, 2 and two faced narrow width side walls 3, 4. At this time, the portion at the side part in the casting range 6 is formed as rectangular connecting surface 9 and a round part 10 is formed at the shifting part to the lower side portion A of the wide width side wall deciding the shape of the steel strip. Further, the upper side portions C, C' covering the expected bath surface 8 are inclined by  $\alpha=1-3$  deg. angle to the vertical line. By this constitution, casting slag is fluidized sufficiently between the mold walls and a casting shell and the friction is reduced. Therefore, the quality of the steel strip over the whole casting width is uniformized, and the occurrence of defects is prevented.

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

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

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

Citation (search report)  
• [A] DE 3400220 A1 19850718 - SCHLOEMANN SIEMAG AG [DE]  
• [A] US 2564723 A 19510821 - IRVING ROSSI  
• [AD] EP 0149734 B1 19880420  
• [A] PATENT ABSTRACTS OF JAPAN, Band 4, Nr. 183 (M-47)(665), 17 Dezember 1980; & JP-A-55 130 362 (SUMITOMO) 09-10-1980

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