

Title (en)  
Apparatus for and process of continuous casting

Title (de)  
Vorrichtung und Verfahren zum Stranggiessen

Title (fr)  
Dispositif et procédé pour la coulée continue

Publication  
**EP 0780176 A3 19990506 (EN)**

Application  
**EP 96119789 A 19961210**

Priority  
• JP 32420395 A 19951213  
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• JP 12467296 A 19960520

Abstract (en)  
[origin: EP0780176A2] A continuous casting apparatus of a reduction type in which a mold is composed of long-side mold elements (2) and short-side mold elements (1), each short-side mold element (1) including a reduction portion (7) widened at its upper portion and narrowed at its lower portion and a straight portion (8), so that reduction is performed in a state that solidification is suppressed on a short-side mold element (1) side. The reduction portion (7) is made of a refractory member, and the straight portion (8) is made of a water-cooled copper plate. The refractory member (7) may be made from a material mainly containing ZrB<sub>2</sub>, and it may be divided in a plurality of parts. To control a temperature distribution of the short-side mold element (1), a high temperature supply passage (13) is provided in a back surface portion of the short-side mold element (1). An elastically deformable frame is arranged at a contact portion between a reduction portion (7) made of a refractory member and a long-side mold element (2) for preventing formation of gaps between the short-side mold element (1) and the long-side mold element (2). Also, a seal member is provided at a contact portion between the short-side mold element (1) and the long-side mold element (2) for improving a sliding therebetween.  
<IMAGE> <IMAGE>

IPC 1-7  
**B22D 11/04**; **B22D 11/06**; **B22D 11/10**; **B22D 11/16**

IPC 8 full level  
**B22D 11/04** (2006.01); **B22D 11/055** (2006.01); **B22D 11/059** (2006.01); **B22D 11/06** (2006.01)

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**B22D 11/108** (2013.01 - KR); **B22D 11/055** (2013.01 - KR); **B22D 11/16** (2013.01 - KR)

Citation (search report)  
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