

Title (en)  
METHOD FOR CASTING A LIQUID METAL

Publication  
**EP 0154585 A3 19860226 (FR)**

Application  
**EP 85400326 A 19850222**

Priority  
CA 448241 A 19840224

Abstract (en)  
[origin: ES8602460A1] A protective gas shield is formed around steel, to prevent oxidn. from the moment of pouring to the moment of solidification, by use of liq. and/or solid and/or gaseous carbon dioxide. - In ingot casting, the ingot mould is purged with carbon dioxide and the molten steel is teemed into the mould under the protection of a carbon dioxide shield such that the mould is filled with a carbon dioxide cover which covers the steel until it solidifies. In this embodiment, the carbon dioxide shield may be (partially) replaced by an argon shield. - In continuous casting, the molten stream is protected by carbon dioxide from the moment of formation until the moment it solidifies.  
[origin: ES8602460A1] A protective gas shield is formed around steel, to prevent oxidn. from the moment of pouring to the moment of solidification, by use of liq. and/or solid and/or gaseous carbon dioxide. - In ingot casting, the ingot mould is purged with carbon dioxide and the molten steel is teemed into the mould under the protection of a carbon dioxide shield such that the mould is filled with a carbon dioxide cover which covers the steel until it solidifies. In this embodiment, the carbon dioxide shield may be (partially) replaced by an argon shield. - In continuous casting, the molten stream is protected by carbon dioxide from the moment of formation until the moment it solidifies.

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**B22D 11/10**; **B22D 27/00**

IPC 8 full level  
**B22D 7/12** (2006.01); **B22D 1/00** (2006.01); **B22D 11/10** (2006.01); **B22D 11/106** (2006.01); **B22D 23/00** (2006.01); **B22D 27/00** (2006.01)

CPC (source: EP US)  
**B22D 11/106** (2013.01 - EP US); **B22D 27/003** (2013.01 - EP US)

Citation (search report)  
• [X] BE 677958 A 19660916  
• [X] FR 434070 A 19120124 - MARCELLIN REYMONDIER [FR]  
• [X] LU 70560 A1 19741128  
• [X] CHEMICAL ABSTRACTS, vol. 92, 1980, page 234, no. 114595c, Columbus, Ohio, US; & JP - A - 79 134 033 (KAWASAKI STEEL CORP.) 18-10-1979

Cited by  
US5343491A; EP0196242A1; EP0288369A3; EP0383184A1; US5683652A; EP0274290A1; FR2607039A1

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**EP 0255450 A2 19880203**; **EP 0255450 A3 19880518**; **EP 0255450 B1 19900328**; AT E51352 T1 19900415; AU 3904285 A 19850905; AU 573779 B2 19880623; DE 3576792 D1 19900503; EP 0154585 A2 19850911; EP 0154585 A3 19860226; ES 540622 A0 19851201; ES 8602460 A1 19851201; JP S60203338 A 19851014; US 4614216 A 19860930; ZA 85911 B 19850925

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