

Title (en)  
Device for gas-shielding a molten metal jet.

Title (de)  
Vorrichtung zur Gasschätzung eines flüssigen Metallgießstrahls.

Title (fr)  
Appareil pour la protection gazeuse d'un jet de métal fondu.

Publication  
**EP 0255450 A2 19880203 (FR)**

Application  
**EP 87401801 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.

Abstract (fr)  
Selon l'invention, on protège l'acier liquide, qui s'écoule en un courant à partir d'un récipient tel qu'une poche (A), soit dans une lingotière (B), soit dans un moule de coulée continue, en l'isolant de l'atmosphère environnante au moyen d'un écran d'anhydride carbonique. L'anhydride carbonique se décompose pour former un écran protecteur de gaz inerte. L'absorption d'oxygène par l'acier reste négligeable. Les moules ou lingotières utilisés pour recevoir l'acier liquide versé par la poche sont purgés au moyen d'anhydride carbonique avant la coulée.

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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)

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