

Title (en)
MOLD FOR CONTINUOUSLY CASTING STEEL.

Title (de)
GIESSFORM FÜR KONTINUIERLICH GEGOSSENEN STAHL.

Title (fr)
MOULE DE COULAGE D'ACIER EN CONTINU.

Publication
EP 0383934 A1 19900829 (EN)

Application
EP 89908510 A 19890720

Priority
JP 18414588 A 19880722

Abstract (en)
Mould is provided on the inside surface with an Ni-B alloy coating layer contg. 0.05-1.5 wt. % B (pref. 0.05-0.7 wt. %, esp. 0.06-0.3 wt. %) The thickness of the Ni-B alloy coating layer is 50 microns-2mm (pref. 50 microns, -1.5mm, esp. 100 microns-1mm) over at least half of the inside surface. A coating comprising Ni and/or Co can be formed on the inside surface of the copper or copper alloy mould and on this layer can be formed an Ni-B alloy coating contg. 0.05-0.5 wt. % B (pref. 0.05-0.3 wt. %). In this case the thickness of the Ni-B alloy coating layer is at least 50 microns and the total thickness of the two coating layers is 100 microns-3mm. These coating layers can be formed on at least the lower part of the inside wall of the mould. The layers can be coated using an electrolytic or a nonelectrolytic plating method.

Abstract (fr)
On a mis au point un moule de coulage d'acier en continu fait en cuivre ou en alliage de cuivre, dont la surface intérieure est recouverte d'un revêtement en alliage nickel-bore contenant 0,05 à 1,5 % en poids de bore, ou recouverte à la fois d'un revêtement comprenant au moins du nickel ou du cobalt et d'un revêtement en alliage nickel-bore contenant 0,05 à 0,5 % en poids de bore.

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B22D 11/059 (2006.01)

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Cited by
GB2318314A; DE19919777C2; EA008676B1; CN104120461A; DE4039230A1; DE4039230C2; US6176298B1; EP0492264A1; WO9821379A1

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