

Title (en)

Device for the external closing of a vessel for molten metal.

Title (de)

Vorrichtung zum Aussenabschluss eines Gefäßes für schmelzflüssige Metalle.

Title (fr)

Dispositif de fermeture externe de récipient pour métal en fusion.

Publication

EP 0171487 A1 19860219 (FR)

Application

EP 84870120 A 19840814

Priority

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Abstract (en)

1. Device for closing externally a vessel (1) containing molten metal, particularly a ladle for casting steel from a converter or an electric furnace in a continuous-casting equipment, comprising a fixed plate (2) having at least one opening (3) and being integral with the vessel bottom, a movable plate (4) provided with at least one opening (5), means so arranged as to press firmly the movable plate (4) against that side of the fixed plate (2) facing outwards of the vessel and to slide the side of the movable plate (4) relative to that side of the fixed plate (2) it does contact, to bring the opening (5) in the movable plate (4) facing the opening in the fixed plate, an inner or top nozzle (8) secured to that fixed plate side facing inwards of the vessel and surrounding the opening (3) provided in said plate to direct the molten metal to said opening and a collecting nozzle (10) secured to that side of the movable plate (4) removed from the fixed plate and surrounding the opening (5) in said movable plate to collect the molten metal flowing through the openings (3, 5) in the fixed and movable plates facing partly or completely one another, said device being characterized in that the inner duct (15) of the collecting nozzle (10) has two adjacent parts (16, 17), the first part (16) which extends from that end of the duct (15) nearest the movable plate (4), having a smaller cross-section than the opening (5) provided in the movable plate (4), the second part (17) of said inner duct (15) having a larger cross-section than the cross-section of the first part (16) of said duct.

Abstract (fr)

Dispositif de fermeture externe de récipient (1) pour la coulée de l'acier comprenant une plaque fixe (2) pourvue d'au moins une ouverture (3), une plaque mobile (4) présentant au moins une ouverture (5), des moyens pour appliquer les plaques l'une contre l'autre et faire glisser la plaque mobile par rapport à la plaque fixe pour amener l'ouverture (5) en regard de l'ouverture (3), une busette interne (8) et une busette collectrice (10), le conduit interne (15) de cette dernière présentant une première partie (16), s'étendant à partir de son extrémité la plus proche de la plaque mobile (4), dont la section est inférieure à celle de l'ouverture (5), la section de la seconde partie (17) du conduit interne (15) étant supérieure à la section de la première partie (16).

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B22D 41/24 (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] DE 3029529 A1 19820304 - DIDIER WERKE AG [DE]
- [A] US 4260081 A 19810407 - DETALLE POL, et al

Cited by

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