Title (en)

Pouring device for metal melts

Title (de)

Eingussvorrichtung für Metallschmelzen

Title (fr)

Dispositif de coulée pour fontes métalliques

Publication

EP 2140956 A1 20100106 (DE)

Application

EP 09164471 A 20090702

Priority

DE 102008031362 A 20080704

Abstract (en)

The pouring device comprises an inlet opening (31) and an outlet opening (32) for molten metal, and a flow path (27) for the molten metal formed between the inlet and outlet openings. The flow path is formed by a path (33) around 180[deg] C. An entrance area (5) downstream to the inlet opening is intended in the device and the entrance area comprises a large cross-section as the inlet opening. The device has a cross sectional area, which has a respective cross-section as the preceded cross sectional area. The pouring device comprises an inlet opening (31) and an outlet opening (32) for molten metal, and a flow path (27) for the molten metal formed between the inlet and outlet openings. The flow path is formed by a path (33) around 180[deg] C. An entrance area (5) downstream to the inlet opening is intended in the device and the entrance area comprises a large cross-section as the inlet opening. The device has a cross sectional area, which has a respective cross-section as the preceded cross sectional area. The cross-section area has an equally large or small cross-section than the preceded cross-section area. An interior wall of the pouring device has bumps. The flow path is partially filled with polystyrene and a filter is arranged in the flow path. A reducer is arranged in the outlet opening and the pouring device is formed together from fireclay component. The pouring device is formed from incombustible mass, ramming mixture, core sand and/or molding sand.

Abstract (de)

Die Erfindung betrifft eine Eingussvorrichtung für Metallschmelzen mit wenigstens einer Einlassöffnung und wenigstens einer Auslassöffnung, bei der in der Eingussvorrichtung zwischen der wenigstens einen Einlassöffnung und der wenigstens einen Auslassöffnung wenigstens ein Fließweg für die Metallschmelze ausgebildet ist, und dass der Fließweg mittels wenigstens eines Steges wenigstens einmal um wenigstens 90° umgelenkt ausgebildet ist. (Fig. 4).

IPC 8 full level

B22D 43/00 (2006.01); **B22C 9/08** (2006.01)

CPC (source: EP)

B22C 9/086 (2013.01); **B22D 43/001** (2013.01); **B22D 43/004** (2013.01)

Citation (applicant)

- FR 338645 A 19040530 - NICOLAUS MENNICKHEIM [RU]
- EP 0276453 A1 19880803 - STETTNER & CO [DE]
- US 4372542 A 19830208 - CHIA E HENRY

Citation (search report)

- [XI] FR 338645 A 19040530 - NICOLAUS MENNICKHEIM [RU]
- [XI] EP 0276453 A1 19880803 - STETTNER & CO [DE]
- [XI] US 4372542 A 19830208 - CHIA E HENRY
- [XI] WO 2006031964 A1 20060323 - DARICK IRVING I [US], et al

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CN111496242A; CN103111586A; CN104128599A; CN108380848A; WO2019120634A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2140956 A1 20100106; **EP 2140956 B1 20130515**

DOCDB simple family (application)

EP 09164471 A 20090702