

Title (en)

Feeder with exothermic feeder body and external insulation jacket

Title (de)

Speiser mit exothermem Speiserkorporus und äußerer Isolierschale

Title (fr)

Masselotte dotée d'un corps d'alimentation exothermique et d'une enveloppe d'isolation extérieure

Publication

EP 2489449 B1 20151202 (DE)

Application

EP 11001338 A 20110218

Priority

EP 11001338 A 20110218

Abstract (en)

[origin: EP2489449A1] The feeder (10) comprises a feeder cavity (12) enclosing a feeder body (11) and comprising a peripheral side wall, a lid portion, a bottom portion having a feeder opening (16) for connection to a mold cavity, and a refractive core arranged at the bottom portion of the feeder. The feeder body comprises an exothermic and burning material for generating heat upon contact with the hot metal rising in the feeder cavity during the casting process. An outer surface, side walls and the lid portion of the feeder body is completely enclosed by a group comprising an insulating refractory material shell. The feeder (10) comprises a feeder cavity (12) enclosing a feeder body (11) and comprising a peripheral side wall, a lid portion, a bottom portion having a feeder opening (16) for connection to a mold cavity, and a refractive core arranged at the bottom portion of the feeder. The feeder body comprises an exothermic and burning material for generating heat upon contact with the hot metal rising in the feeder cavity during the casting process. An outer surface, side walls and the lid portion of the feeder body is completely enclosed by a group comprising an insulating refractory material shell (18). The shell directly rests on the outer surface of the feeder body consisting of the exothermic material. An air gap is left between the outer surface of the feeder body and the outside of the insulating shell. A layer of a heat-reflective material and an aluminum foil are arranged between the feeder body and the shell. The feeder body enclosing shell having a peripheral section engages toward the feed opening of the bottom region of the feeder body.

IPC 8 full level

B22C 9/08 (2006.01)

CPC (source: EP)

B22C 9/088 (2013.01)

Cited by

WO2014083155A1; DE102015103593B3; CN105382241A; EP3756788A1; EP3756787A1

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