

Title (en)

Supply method and apparatus for semi-solid metal

Title (de)

Verfahren und Vorrichtung für die Zufuhr eines halbfesten Metalls

Title (fr)

Procédé d'alimentation et appareil d'alimentation de métal semi solide

Publication

EP 1970144 B1 20100512 (EN)

Application

EP 08152690 A 20080313

Priority

JP 2007068468 A 20070316

Abstract (en)

[origin: EP1970144A1] A supply apparatus supplies a semi-solid metal to a molding apparatus having an injection sleeve (31) formed with an opening portion (31A) and a plunger (32) provided progressively/regressively at an inner portion of the injection sleeve. The supply apparatus includes a crucible (11) in a shape of a cylinder containing a semi-solid metal, a carry arm (13) for grabbing to move the crucible (11), and a control apparatus for controlling the carry arm (13). The control apparatus inserts a front end portion (134) of a gutter (131) mounted to the crucible into (11) the opening portion (31A) of the injection sleeve (31) by a predetermined angle to inject the semi-solid metal to a side of a direction of advancing the plunger (32) more than at a position formed with the opening portion (31A) at inside of the injection sleeve (31).

IPC 8 full level

B22D 17/00 (2006.01)

CPC (source: EP US)

B22D 17/007 (2013.01 - EP US)

Cited by

US2022080499A1; EP2347840A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1970144 A1 20080917; EP 1970144 B1 20100512; CN 101264510 A 20080917; DE 602008001182 D1 20100624; JP 2008229633 A 20081002; US 2008223540 A1 20080918

DOCDB simple family (application)

EP 08152690 A 20080313; CN 200810083008 A 20080317; DE 602008001182 T 20080313; JP 2007068468 A 20070316; US 4611708 A 20080311