

Title (en)

Device for closing a discharging hole of a metallurgical vessel for liquid steel, especially for an electric arc furnace

Title (de)

Vorrichtung zum Verschliessen des Bodenabstichs eines metallurgischen Gefässes für flüssigen Stahl, insbesondere eines Elektroschmelzofens

Title (fr)

Dispositif pour fermer d'un orifice pour décharger un réservoir métallurgique, en particulier pour un four à arc

Publication

EP 1312883 A3 20031203 (DE)

Application

EP 02022821 A 20021012

Priority

DE 10156455 A 20011116

Abstract (en)

[origin: EP1312883A2] Device for closing the bottom tapping of a metallurgical vessel has a plunger (11a) which moves on an axis (11c) aligned with the tapping hole (7) using a wagon (12) horizontally moving in several stations. Granules are inserted under pressure into wagons through the cylinder (11b) of the plunger. <??>Preferred Features: The cylinder is height-adjustable so that it is able to press against a closing plate (8). A first station (14a) fills the cylinder with granules, a second station (14b) coats the granules with a binder (16), and a third station (14c) heats the binder up to sintering.

IPC 1-7

F27D 3/15; C21C 5/46; B22D 41/46

IPC 8 full level

F27B 3/19 (2006.01); **F27D 3/15** (2006.01); **F27D 3/12** (2006.01)

CPC (source: EP)

F27B 3/19 (2013.01); **F27D 3/1536** (2013.01); **F27D 2003/127** (2013.01)

Citation (search report)

- [X] DE 19755932 C1 19981210 - DANGO & DIENENTHAL MASCHBAU [DE]
- [AD] DE 3230646 C1 19831020 - MANNESMANN AG

Cited by

CN116007388A; US8968640B2; WO2011089054A1

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