

Title (en)

IMPROVEMENTS IN MOLTEN METAL HANDLING VESSELS

Title (de)

VERBESSERUNGEN BEI BEHANDLUNGSPFANNEN FÜR FLÜSSIGES METALL

Title (fr)

AMELIORATIONS RELATIVES A DES CUVES DE MANIPULATION DE METAL FONDU

Publication

**EP 0689486 A1 19960103 (EN)**

Application

**EP 93907923 A 19930322**

Priority

- BR 9307841 A 19930322
- GB 9300485 W 19930322

Abstract (en)

[origin: WO9421406A1] The invention provides a means of introducing gas into the outlet to remove an obstruction. Accordingly, the invention provides an apparatus to open and close an outlet in a molten metal handling vessel which includes a valve (6) communicating with the outlet (5a) and having relatively movable valve parts (7, 8), the valve parts having openings (10, 12) which are displaced from one another to close the valve and, hence, the outlet (5a) and which are in communication with each other and with the outlet (5a) to open the outlet, whereby the molten metal can flow out of the vessel, characterised in that there is provided a frangible tube (13) through which gas can be passed, the tube (13) being of sufficient length to extend through both valve parts (7, 8) and into the outlet (5a) of the vessel, whereby gas can be passed into the outlet and then opening of the valve (6) by relative movement of the valve parts (7, 8) breaks the tube (13) so that it does not obstruct opening.

IPC 1-7

**B22D 41/42**; **B22D 1/00**

IPC 8 full level

**B22D 41/42** (2006.01); **B22D 1/00** (2006.01); **B22D 41/44** (2006.01); **B22D 41/46** (2006.01); **F27D 3/14** (2006.01)

IPC 8 main group level

**B22D** (2006.01)

CPC (source: EP)

**B22D 41/42** (2013.01); **B22D 41/465** (2013.01)

Citation (search report)

See references of WO 9421406A1

Designated contracting state (EPC)

AT BE DE DK ES FR GB IT LU NL SE

DOCDB simple family (publication)

**WO 9421406 A1 19940929**; AU 3893893 A 19941011; BR 9307841 A 19960116; EP 0689486 A1 19960103; FI 954421 A0 19950919; FI 954421 A 19950919; JP H08511729 A 19961210; SE 469969 B 19931018; SE 9200756 D0 19920311; SE 9200756 L 19930912; ZA 931331 B 19940322

DOCDB simple family (application)

**GB 9300485 W 19930322**; AU 3893893 A 19930322; BR 9307841 A 19930322; EP 93907923 A 19930322; FI 954421 A 19950919; JP 50758394 A 19930322; SE 9200756 A 19920311; ZA 931331 A 19930225