

Title (en)

Metallurgical vessel, in particular arc furnace, which remains vertical during tapping of the metal melt

Title (de)

Metallurgisches Gefäß, insbesondere Elektrolichtbogenofen, das beim Abstechen der Metallschmelze in senkrechter Gefäßlage steht

Title (fr)

Réceptier métallurgique, en particulier four à arc, qui reste vertical pendant le sourtirage du métal fondu

Publication

EP 1174671 A3 20020724 (DE)

Application

EP 01116091 A 20010703

Priority

DE 10034049 A 20000713

Abstract (en)

[origin: EP1174671A2] Metallurgical vessel, especially an electric arc furnace comprises: i) a tapping channel branch (8) running vertically downward from a vertical course of one or more tapping channels (6) in the tapping channel pipe wall (7); and (ii) a control stop (10) guided on the tapping channel axis (4a) in a pipe (9) from an upper closing position (11) sealed on the vessel base (1a) into a lower opening position (12). Preferred Features: The control stop and the pipe through which it is guided are made of boron nitride or a ceramic having low wettability. The tapping channels each have a pushing drive (14) and a rotating drive (15).

IPC 1-7

F27D 3/15; F27B 3/19; B22D 41/14; C21C 5/46

IPC 8 full level

F27D 3/15 (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP)

F27D 3/1509 (2013.01); **F27D 3/1536** (2013.01); **F27D 2003/161** (2013.01)

Citation (search report)

- [X] DE 659151 C 19380427 - SIEMENS AG
- [X] DE 613751 C 19350524 - SIEMENS AG
- [A] EP 0624769 A1 19941117 - MANNESMANN AG [DE]
- [A] US 3556360 A 19710119 - STELSON THOMAS E
- [AD] DE 3230646 C1 19831020 - MANNESMANN AG
- [A] FR 2391017 A1 19781215 - DIDIER WERKE AG [DE]

Cited by

DE102009013869A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1174671 A2 20020123; **EP 1174671 A3 20020724**; DE 10034049 A1 20020124

DOCDB simple family (application)

EP 01116091 A 20010703; DE 10034049 A 20000713