Title (en)

Sliding gate closure for a molten metal containing vessel

Title (de)

Schiebeverschluss für einen Metallschmelze enthaltenden Behälter

Title (fr)

Fermeture à tiroir pour un récipient contenant un bain métallique en fusion

Publication

EP 0819488 B1 20000209 (DE)

Application

EP 97111680 A 19970710

Priority

CH 180896 A 19960718

Abstract (en)

[origin: EP0819488A2] The sliding closure unit incorporates a frame housing (22) accommodating a refractory base plate (25) and a slider plate (26) in a slider assembly (23) which is movable back and forth by means of a drive. The closure unit is characterized by: (a) the frame (22) including the slider and base plates (26, 25) is held slidably in its longitudinal direction on guide rails which are located underneath the outlet (12) and are attached to the container (10); (b) this frame, after sliding through a specified distance, is detachable from the container; and (c) the frame (22) is provided with at least one connector element for releasable coupling to a manipulator which serves for sliding the frame along the guide rails and removing it from the container, and for installing the frame into its position on the guide rails.

IPC 1-7

B22D 41/24; C21C 5/46

IPC 8 full level

B22D 41/24 (2006.01); **C21C 5/46** (2006.01); **B22D 41/34** (2006.01)

CPC (source: EP KR US)

B22D 41/24 (2013.01 - EP US); **B22D 41/28** (2013.01 - KR); **B22D 41/38** (2013.01 - KR)

Cited by

RU2484922C2; WO2011047799A3; WO2009127333A1; WO2011047799A2; US9027802B2; WO2009127420A1

Designated contracting state (EPC)

AT BE CH DE ES FI FR GB IT LI SE

DOCDB simple family (publication)

EP 0819488 A2 19980121; **EP 0819488 A3 19980311**; **EP 0819488 B1 20000209**; AT E189635 T1 20000215; CA 2210778 A1 19980118; CA 2210778 C 20051011; CN 1063693 C 20010328; CN 1176860 A 19980325; DE 59701105 D1 20000316; ES 2146441 T3 20000801; JP H1060516 A 19980303; KR 100520243 B1 20060112; KR 980008397 A 19980430; TW 360569 B 19990611; US 5836485 A 19981117; ZA 975908 B 19980330

DOCDB simple family (application)

EP 97111680 A 19970710; AT 97111680 T 19970710; CA 2210778 A 19970717; CN 97114722 A 19970717; DE 59701105 T 19970710; ES 97111680 T 19970710; JP 19363597 A 19970718; KR 19970032415 A 19970712; TW 86110280 A 19970718; US 89580797 A 19970717; ZA 975908 A 19970702