

Title (en)

Sliding closure unit for the bottom of a pouring ladle.

Title (de)

Verschlussvorrichtung für die Boden-Ausgussöffnung einer Giesspfanne.

Title (fr)

Dispositif de fermeture pour l'ouverture de coulée dans le fond d'une poche de coulée.

Publication

EP 0444411 B1 19940817 (DE)

Application

EP 91100610 A 19910118

Priority

DE 4006064 A 19900226

Abstract (en)

[origin: US5110018A] A closing apparatus for the bottom pouring hole of a casting ladle, comprising a mounting plate mounted on the bottom of the ladle with a head plate resting against it, in which head plate a port is formed to pour out the melt, and further comprising a slide plate supported for pivoting movement about two axes and adapted to be pressed resiliently against the head plate. The slide plate is supported for reciprocating movement inside a housing. The housing is supported by a housing carrier structure, especially between the legs of carrier bracket for the housing, for pivoting movement about a first pivot axis, while the carrier bracket for the housing is supported by the mounting plate for pivoting about a second pivot axis. The first and second pivot axes extend parallel to each other and to the sealing face between the head and slide plates.

IPC 1-7

B22D 41/22; **B22D 41/34**; **B22D 41/40**

IPC 8 full level

B22D 11/10 (2006.01); **B22D 41/08** (2006.01); **B22D 41/22** (2006.01); **B22D 41/24** (2006.01); **B22D 41/34** (2006.01); **B22D 41/38** (2006.01); **B22D 41/40** (2006.01)

CPC (source: EP KR US)

B22D 41/22 (2013.01 - KR); **B22D 41/34** (2013.01 - EP US); **B22D 41/40** (2013.01 - EP US)

Cited by

EP3453473A1; US11331719B2; DE102017120897A1

Designated contracting state (EPC)

AT DE ES FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0444411 A1 19910904; **EP 0444411 B1 19940817**; AT E110017 T1 19940915; BR 9100747 A 19911022; CA 2035678 A1 19910827; CA 2035678 C 19961217; CS 9100407 A2 19910915; CZ 278039 B6 19930714; DE 4006064 A1 19910829; DE 4006064 C2 19920220; DE 59102533 D1 19940922; ES 2057610 T3 19941016; HU 216003 B 19990428; HU 910554 D0 19910930; HU T65342 A 19940502; JP H04220162 A 19920811; JP H0775772 B2 19950816; KR 910021276 A 19911220; KR 950001386 B1 19950218; MX 173504 B 19940310; RU 1836188 C 19930823; SK 281048 B6 20001107; TR 27216 A 19941209; US 5110018 A 19920505; US RE35637 E 19971021; ZA 911349 B 19911127

DOCDB simple family (application)

EP 91100610 A 19910118; AT 91100610 T 19910118; BR 9100747 A 19910225; CA 2035678 A 19910205; CS 40791 A 19910218; DE 4006064 A 19900226; DE 59102533 T 19910118; ES 91100610 T 19910118; HU 55491 A 19910220; JP 5012891 A 19910225; KR 910003046 A 19910225; MX 2466191 A 19910222; SK 40791 A 19910218; SU 4894493 A 19910225; TR 20391 A 19910225; US 23792794 A 19940504; US 66142191 A 19910226; ZA 911349 A 19910225