

Title (en)
SLIDING GATE FOR THE SPOUT OF METALLURGICAL VESSELS

Publication
EP 0187899 A3 19881130 (DE)

Application
EP 85112776 A 19851009

Priority
DE 3500863 A 19850112

Abstract (en)
[origin: ES8704101A1] A sliding closure unit for controlling the discharge of molten metal from a metallurgical vessel includes a stationary refractory plate, a stationary housing assembly for mounting the stationary refractory plate on the metallurgical vessel, a movable refractory plate, the stationary and movable refractory plates having complementary, abutting relative sliding surfaces, and a movable frame mounting the movable refractory plate for movement with respect to the stationary refractory plate. The movable frame and movable refractory plate are urged toward the stationary refractory plate by levers mounted in the housing assembly for pivotal movement about axles fixed to the housing assembly and extending transverse to the direction of movement of the movable frame and movable refractory plate. Springs are mounted in the housing assembly to urge the levers to pivot about the respective axles toward the movable frame to thereby urge the movable frame and movable refractory plate toward the stationary refractory plate. Each lever and the respective spring are arranged in an elongated configuration extending in a direction substantially parallel to the direction of movement.

IPC 1-7
B22D 41/08

IPC 8 full level
B22D 37/00 (2006.01); **B22D 41/08** (2006.01); **B22D 41/34** (2006.01); **B22D 41/40** (2006.01)

CPC (source: EP KR US)
B22D 37/00 (2013.01 - KR); **B22D 41/40** (2013.01 - EP US)

Citation (search report)

- [A] US 4077552 A 19780307 - LOTHMANN JOSEPH
- [A] LU 64895 A1 19720706
- [E] DE 3500864 C1 19851010 - STOPINC AG
- [E] GB 2169530 A 19860716 - STOPINC AG
- [X] SOVIET INVENTIONS ILLUSTRATED, Sektion M/P, Woche D26, Klasse M, 5. August 1981, Nr. 47206 D/26, Derwent Publications Ltd, London, GB; & SU-A-768 556 (LENGD POLY) 07-10-1980
- [X] SOVIET INVENTIONS ILLUSTRATED, Sektion M/P, Woche 8428, Klasse M, 22. August 1984, Nr. 84-176339/28, Derwent Publications Ltd, London, GB; & SU-A-1 053 961 (FER MET WORK MECH) 15-11-1983
- [X] SOVIET INVENTIONS ILLUSTRATED, Sektion M/P, Woche D27, Klasse M, 12. August 1981, Nr. 49293 D/27, Derwent Publications Ltd, London, GB; & SU-A-772 715 (MAIDROVAI) 23-10-1980

Cited by
CN101791696A; EP3943212A1; US12103070B2; WO2022017673A1

Designated contracting state (EPC)
AT CH FR GB IT LI SE

DOCDB simple family (publication)
EP 0187899 A2 19860723; EP 0187899 A3 19881130; EP 0187899 B1 19900509; AT E52435 T1 19900515; BR 8600070 A 19860923; CA 1261149 A 19890926; CN 1008704 B 19900711; CN 85108728 A 19860723; DE 3500863 A1 19860717; DE 3500863 C2 19870115; ES 550756 A0 19870316; ES 8704101 A1 19870316; JP S61162262 A 19860722; JP S6258816 B2 19871208; KR 860005667 A 19860811; KR 920004974 B1 19920622; US 4728014 A 19880301; ZA 858548 B 19860625

DOCDB simple family (application)
EP 85112776 A 19851009; AT 85112776 T 19851009; BR 8600070 A 19860109; CA 499340 A 19860110; CN 85108728 A 19851202; DE 3500863 A 19850112; ES 550756 A 19860109; JP 370086 A 19860113; KR 850009722 A 19851223; US 81355485 A 19851226; ZA 858548 A 19851106