

Title (en)
CONTINUOUS CASTING OF MOLTEN METAL

Publication
EP 0558594 A4 19960306 (EN)

Application
EP 91920904 A 19911121

Priority
AU PK344490 A 19901121

Abstract (en)
[origin: WO9209390A1] A tundish sliding gate valve and nozzle change-over assembly for use in a continuous caster is disclosed. The assembly comprises a sliding gate valve (9) for controlling the flow of molten metal from a tundish to a continuous casting mould. The sliding gate valve (9) comprises upper and lower fixed plates (11, 13) and an intermediate sliding plate (15), each of the plates having apertures for molten metal. The assembly further comprises a change-over assembly connected to the lower plate (13) to support a nozzle (7) in the operative position and to move the nozzle (7) into and from the operative position. The change-over assembly comprises a means to bias a nozzle (7) against the sliding gate valve (9) so that there is a fluid tight seal and so that the biasing force is isolated from the upper plate (11) and the sliding plate (15) and therefore does not affect the operation of the sliding gate valve (9).

IPC 1-7
B22D 41/56; **B22D 41/08**; **B22D 37/00**; **B22D 41/22**; **B22D 41/34**; **B22D 41/38**; **B22D 41/40**

IPC 8 full level
B22D 11/10 (2006.01); **B22D 41/24** (2006.01); **B22D 41/34** (2006.01); **B22D 41/56** (2006.01)

CPC (source: EP)
B22D 41/24 (2013.01); **B22D 41/56** (2013.01)

Citation (search report)

- [XP] WO 9103339 A1 19910321 - INT IND ENG SA [BE]
- [A] US 4415103 A 19831115 - SHAPLAND EARL P [US], et al
- [A] US 4887748 A 19891219 - HICKS JAMES W [US]
- See references of WO 9209390A1

Designated contracting state (EPC)
AT BE DE ES FR GB IT LU NL SE

DOCDB simple family (publication)
WO 9209390 A1 19920611; CA 2096750 A1 19920522; EP 0558594 A1 19930908; EP 0558594 A4 19960306; JP H06502351 A 19940317

DOCDB simple family (application)
AU 9100536 W 19911121; CA 2096750 A 19911121; EP 91920904 A 19911121; JP 50019491 A 19911121