

Title (en)

REFRACTORY STATOR/ROTOR UNIT FOR A NOZZLE GATE IN A VESSEL HOLDING MOLTEN METAL

Publication

**EP 0407712 A3 19920506 (DE)**

Application

**EP 90109647 A 19900521**

Priority

CH 259389 A 19890711

Abstract (en)

[origin: EP0407712A2] The gate (20) has a tubular stator (21) and a rotor guided by the latter within the container, forming a unit which has at least one transverse opening and at least one opening starting from the latter and leading out of the vessel (openings 27, 24, 25, 23). The rotor (21) for its part is designed with two mutually concentric tube pieces (25, 26), which are provided with transverse openings (27, 28) and surround the stator (21) sealingly on the inside and outside. The transverse openings (24, 28) of the stator and of the inner tube piece (25), which openings are preferably of the same size, serve for the regulated pouring of the quantity of molten metal, while the outer tube piece (26) with its larger opening (27) is designed as a safety closing member in relation to the other. Operational safety can be considerably improved with this gate system. <IMAGE>

IPC 1-7

**B22D 41/16**

IPC 8 full level

**B22D 41/16** (2006.01); **B22D 41/14** (2006.01); **F27D 3/14** (2006.01)

CPC (source: EP US)

**B22D 41/14** (2013.01 - EP US)

Citation (search report)

- [AD] EP 0308597 A2 19890329 - DIDIER WERKE AG [DE]
- [AP] EP 0361052 A2 19900404 - STOPINC AG [CH]

Cited by

FR2765316A1; EP0567227A1; WO9901710A1

Designated contracting state (EPC)

AT DE ES FR GB GR IT SE

DOCDB simple family (publication)

**EP 0407712 A2 19910116; EP 0407712 A3 19920506; EP 0407712 B1 19950816**; AT E126460 T1 19950915; BR 9003263 A 19910827; CA 2020741 A1 19910112; CH 681435 A5 19930331; CN 1048670 A 19910123; DE 59009527 D1 19950921; ES 2076255 T3 19951101; GR 3017827 T3 19960131; IL 94682 A0 19910415; IL 94682 A 19930404; JP H0352759 A 19910306; US 5085356 A 19920204; ZA 904508 B 19910424

DOCDB simple family (application)

**EP 90109647 A 19900521**; AT 90109647 T 19900521; BR 9003263 A 19900709; CA 2020741 A 19900709; CH 259389 A 19890711; CN 90104516 A 19900710; DE 59009527 T 19900521; ES 90109647 T 19900521; GR 950402922 T 19951020; IL 9468290 A 19900610; JP 18072490 A 19900710; US 54062790 A 19900619; ZA 904508 A 19900611