

Title (en)

VALVE DEVICE, MOLD, AND DIE CASTING APPARATUS

Title (de)

VENTILVORRICHTUNG, FORM UND DRUCKGUSSVORRICHTUNG

Title (fr)

DISPOSITIF DE VANNE, MOULE ET APPAREIL DE COULÉE SOUS PRESSION

Publication

EP 4234122 A4 20240626 (EN)

Application

EP 20958611 A 20201020

Priority

JP 2020039307 W 20201020

Abstract (en)

[origin: EP4234122A1] A valve device (30), connected to a cavity (15) of a mold (10) in a die casting apparatus (1) for opening and closing a suction passage (60) used for sucking gas from the cavity (15), includes a valve device body (40); a valve accommodation space (41), which is provided in the valve device body (40), connected to the suction passage (60), has an opening (44), and includes a flange accommodation space (43); a valve (80) that is movable in the valve accommodation space (41) in an axial direction thereof and that opens and closes the suction passage (60) by moving in the axial direction; a flange part (90) removably attached to the valve (80) in the flange accommodation space (43) and movable together with the valve (80) in the flange accommodation space (43); a blocking part (70) that can be attached to and detached from the valve device body (40) and that closes the opening (44); and a driving part (110) that moves the valve (80) or the flange part (90).

IPC 8 full level

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CPC (source: EP)

B22C 9/06 (2013.01); **B22D 17/04** (2013.01); **B22D 17/14** (2013.01); **B22D 17/145** (2013.01)

Citation (search report)

- [X1] WO 2014050224 A1 20140403 - DIRECT 21 CORP [JP], et al
- [X1] JP 2013248658 A 20131212 - JATCO LTD
- See references of WO 2022085058A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 4234122 A1 20230830; **EP 4234122 A4 20240626**; CN 115996804 A 20230421; JP 7384367 B2 20231121; JP WO2022085058 A1 20220428; WO 2022085058 A1 20220428

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EP 20958611 A 20201020; CN 202080103619 A 20201020; JP 2020039307 W 20201020; JP 2022556842 A 20201020