

Title (en)

VALVE DEVICE HAVING A VALVE SITTING IN A VALVE SOCKET

Title (de)

VENTILVORRICHTUNG MIT EINEM IN EINER VENTILAUFNAHME SITZENDEN VENTIL

Title (fr)

DISPOSITIF DE SOUPAPE COMPRENANT UNE SOUPAPE INSTALLÉE DANS UNE DOUILLE DE SOUPAPE

Publication

EP 4172519 A1 20230503 (DE)

Application

EP 21734757 A 20210609

Priority

- DE 102020116992 A 20200629
- DE 2021100493 W 20210609

Abstract (en)

[origin: WO2022002302A1] The invention relates to a valve device (1) having a valve (2) sitting in a valve socket (30), wherein: - the valve (2) has a valve axis (8) running lengthwise in two opposite axial directions, a valve housing (4) running coaxially with the valve axis (8), and at least one stop (37) sitting on the valve housing (4); - the valve socket (30) is provided with an internally cylindrical valve seat (6), in which an externally cylindrical first housing portion (7) of the valve housing (4) of the valve (2) sits; - the valve seat (6) is described by a valve seat internal radius (VR1); - the radially and axially rigid stop (37) radially protrudes beyond the valve housing (4), the radial stop dimension (AR) of the stop (37) being greater than the valve seat internal radius (VR1).

IPC 8 full level

F16K 15/02 (2006.01); **F16K 27/02** (2006.01)

CPC (source: EP US)

F16K 15/025 (2013.01 - EP); **F16K 15/063** (2013.01 - US); **F16K 27/0209** (2013.01 - EP); **F16K 27/041** (2013.01 - US);
F16K 2200/502 (2021.08 - EP)

Citation (search report)

See references of WO 2022002302A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020116992 A1 20211230; CN 115803550 A 20230314; EP 4172519 A1 20230503; US 11982367 B2 20240514;
US 2023250886 A1 20230810; WO 2022002302 A1 20220106

DOCDB simple family (application)

DE 102020116992 A 20200629; CN 202180043309 A 20210609; DE 2021100493 W 20210609; EP 21734757 A 20210609;
US 202118010199 A 20210609