

Title (en)

VACUUM VALVE FOR A VACUUM CONVEYING SYSTEM

Title (de)

VAKUUMVENTIL FÜR EIN VAKUUM-TRANSPORTSYSTEM

Title (fr)

SOUPAPE DE DÉPRESSION POUR UN SYSTÈME DE TRANSPORT SOUS VIDE

Publication

EP 4259956 A1 20231018 (DE)

Application

EP 21836004 A 20211203

Priority

- DE 102020007531 A 20201209
- EP 2021084180 W 20211203

Abstract (en)

[origin: WO2022122585A1] Disclosed is a vacuum valve (10) for substantially gas-tightly sealing a first valve port (31), comprising a valve seat (30), a sealing element (20) for substantially gas-tightly sealing the first valve port (31), and a drive unit (40) for imparting a movement to the sealing element (20, 120) relative to the valve seat (30, 130). The sealing element (20) is flexibly designed in such a way that in the sealing position, a three-dimensional expansion of the sealing element (20) is variable in a direction running parallel to the opening axis (A) according to the prevailing difference in pressure.

IPC 8 full level

F16K 3/316 (2006.01); **F16K 3/02** (2006.01); **F16K 3/18** (2006.01); **F16K 3/20** (2006.01); **F16K 51/02** (2006.01)

CPC (source: EP US)

F16K 3/0245 (2013.01 - EP US); **F16K 3/188** (2013.01 - EP US); **F16K 3/207** (2013.01 - EP); **F16K 51/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2022122585A1

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

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BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022122585 A1 20220616; CA 3199847 A1 20220616; CN 116615619 A 20230818; DE 102020007531 A1 20220609; EP 4259956 A1 20231018; US 2024026979 A1 20240125

DOCDB simple family (application)

EP 2021084180 W 20211203; CA 3199847 A 20211203; CN 202180081785 A 20211203; DE 102020007531 A 20201209; EP 21836004 A 20211203; US 202118256531 A 20211203