

Title (en)

VALVE DEVICE AND ELECTROCHEMICAL SYSTEM

Title (de)

VENTILVORRICHTUNG UND ELEKTROCHEMISCHES SYSTEM

Title (fr)

DISPOSITIF DE VANNE ET SYSTÈME ÉLECTROCHIMIQUE

Publication

**EP 4133549 A1 20230215 (DE)**

Application

**EP 21715560 A 20210326**

Priority

- DE 102020204436 A 20200406
- EP 2021057880 W 20210326

Abstract (en)

[origin: WO2021204562A1] To provide a valve device by means of which both a positive pressure and a negative pressure in an interior of a container can be equalised and which is as simple as possible to produce, the invention proposes that the valve device comprises an adapter element, a first valve element, a second valve element, a first membrane and/or a second membrane, wherein the first valve element blocks a fluid inlet opening of the adapter element in a closed state, and in an open state releases the fluid inlet opening so that fluid can flow from surroundings of the valve device into an interior of the container, and wherein the second valve element blocks a fluid outlet opening of the adapter element in a closed state, and in an open state releases the fluid outlet opening so that fluid can flow out of the interior of the container into the surroundings of the valve device.

IPC 8 full level

**H01M 50/308** (2021.01); **F16K 24/06** (2006.01); **H01M 50/325** (2021.01); **H01M 50/358** (2021.01)

CPC (source: EP)

**F16K 15/033** (2013.01); **F16K 15/145** (2013.01); **F16K 15/147** (2013.01); **F16K 17/19** (2013.01); **F16K 17/196** (2013.01); **F16K 24/00** (2013.01); **H01M 50/308** (2021.01); **H01M 50/325** (2021.01); **H01M 50/358** (2021.01); **Y02E 60/10** (2013.01)

Citation (search report)

See references of WO 2021204562A1

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 102020204436 A1 20211007**; EP 4133549 A1 20230215; WO 2021204562 A1 20211014

DOCDB simple family (application)

**DE 102020204436 A 20200406**; EP 2021057880 W 20210326; EP 21715560 A 20210326