

Title (en)

SUCTION APPLIANCE AND METHOD FOR CLEANING A FILTER

Title (de)

SAUGVORRICHTUNG UND VERFAHREN ZUR ABREINIGUNG EINES FILTERS

Title (fr)

DISPOSITIF D'ASPIRATION ET PROCÉDÉ DE NETTOYAGE DE FILTRE

Publication

EP 3993684 A1 20220511 (DE)

Application

EP 20734136 A 20200617

Priority

- DE 102019117920 A 20190703
- EP 2020066794 W 20200617

Abstract (en)

[origin: WO2021001152A1] The invention provides a suction appliance comprising a suction unit for generating a suction stream (40), at least one filter (22) and a filter-cleaning device (34), wherein the filter-cleaning device (34) has at least one valve (42) with a movable closing body (44) and also has an abutment device (74) for the closing body (44), and wherein, in an open position of the at least one valve (42), the at least one filter (22) is subjected to the action of a cleaning stream and, in a closed position (90) of the at least one valve (42), the cleaning stream is, or becomes, inactive, wherein the closing body (44) has at least one first bearing region (70) in relation to the abutment device (74) and a second bearing region (72) in relation to the abutment device (74), wherein the second bearing region (72) is spaced apart in a vertical direction (48) from the first bearing region (70), wherein, in the closed position (90) of the at least one valve (42), both the first bearing region (70) and the second bearing region (72) bear against the abutment device (74), and wherein, in the open position of the at least one valve (42), both the first bearing region (70) and the second bearing region (72) are spaced apart from the abutment device (74), wherein, in the open position of the at least one valve (42), a purging-air stream flows past both the first bearing region (70) and the second bearing region (72) en route to the filter (22).

IPC 8 full level

A47L 9/20 (2006.01); **B01D 46/00** (2022.01); **B01D 46/04** (2006.01); **B01D 46/42** (2006.01)

CPC (source: CN EP US)

A47L 5/365 (2013.01 - CN US); **A47L 9/122** (2013.01 - CN US); **A47L 9/20** (2013.01 - CN EP US); **B01D 46/10** (2013.01 - CN EP US); **B01D 46/4272** (2013.01 - CN EP US); **B01D 46/521** (2013.01 - CN US); **B01D 46/70** (2022.01 - EP); **B01D 46/71** (2022.01 - CN US); **F16K 1/12** (2013.01 - CN US); **F16K 1/36** (2013.01 - CN US); **F16K 31/0655** (2013.01 - CN US); **B01D 2271/02** (2013.01 - CN US); **B01D 2279/55** (2013.01 - CN US)

Citation (search report)

See references of WO 2021001152A1

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

DOCDB simple family (publication)

DE 102019117920 A1 20210107; CN 114040699 A 20220211; CN 114040699 B 20230707; CN 116421096 A 20230714; CN 116649830 A 20230829; EP 3993684 A1 20220511; US 2022117453 A1 20220421; WO 2021001152 A1 20210107

DOCDB simple family (application)

DE 102019117920 A 20190703; CN 202080047679 A 20200617; CN 202310525912 A 20200617; CN 202310699004 A 20200617; EP 2020066794 W 20200617; EP 20734136 A 20200617; US 202117566245 A 20211230