

Title (en)
SUCTION GRIPPER

Title (de)
SAUGGERÄT

Title (fr)
APPAREIL D'ASPIRATION

Publication
EP 4137023 B1 20240717 (DE)

Application
EP 22186383 A 20220722

Priority
DE 102021121707 A 20210820

Abstract (en)
[origin: JP2023029312A] To provide a suction device with an improved cooling concept.SOLUTION: The present invention relates to a suction device 10 with a suction device housing 20 in which a suction turbine 11 for generating a suction flow S is arranged, the suction turbine 11 having: a suction turbine inflow opening 11A through which the suction flow S can flow in the turbine; and at least one suction turbine outflow opening 11B through which the suction flow flows out of the turbine, wherein the housing 20 has an inlet 12 for letting in the suction flow S and a dust collecting chamber a 21 for collecting dust contained in the suction flow, wherein a filter element 13 for retaining dust in the dust collecting chamber is arranged between the dust collecting chamber and the suction turbine inflow opening. The suction turbine inflow opening 11A is connected to at least one of cooling air ducts 99, 100, 101 having duct inflow openings 97A, 98A, 102 through which cooling air KL from an area surrounding the suction device can flow past the filter element 13 into the suction turbine 11.SELECTED DRAWING: Figure 1

IPC 8 full level
A47L 9/00 (2006.01); **A47L 9/28** (2006.01)

CPC (source: EP US)
A47L 9/00 (2013.01 - EP); **A47L 9/12** (2013.01 - US); **A47L 9/22** (2013.01 - US); **A47L 9/2821** (2013.01 - US); **A47L 9/2842** (2013.01 - US); **A47L 9/2889** (2013.01 - EP US)

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

DOCDB simple family (publication)
EP 4137023 A1 20230222; EP 4137023 B1 20240717; AU 2022209259 A1 20230309; CN 115919184 A 20230407; DE 102021121707 A1 20230223; JP 2023029312 A 20230303; US 2023076782 A1 20230309

DOCDB simple family (application)
EP 22186383 A 20220722; AU 2022209259 A 20220727; CN 202210999404 A 20220819; DE 102021121707 A 20210820; JP 2022130919 A 20220819; US 202217890320 A 20220818