

Title (en)
Liquid aspirator

Title (de)
Flüssigkeitssaugvorrichtung

Title (fr)
Dispositif d'aspiration de liquides

Publication
EP 2820989 B1 20160420 (DE)

Application
EP 14180641 A 20120529

Priority
• DE 102011050697 A 20110527
• EP 12724975 A 20120529

Abstract (en)
[origin: WO2012163926A1] Liquid aspirator for drawing off and sucking up liquids, having a drawing-off lip (7), having a suction device for sucking up the liquid into a separating space (8) in the housing (1) of the liquid aspirator, having an exhaust-air channel (3), which is subjected to a negative suction pressure and is intended for leading the air out of the separating space (8), having a separating device (13), which is arranged in the separating space (8) and separates the liquid from the water, and having a tank for accommodating the liquid. Complex guidance of the liquid/air stream is avoided in that the housing (1) has a hollow chamber (2) which forms the separating space (8) and the tank, and into which the intake channel (4) opens and from which the exhaust-air channel (3) is guided out of the housing (1); wherein the hollow chamber (2) contains a motor-driven rotor (6) with a rotating impact surface, and the intake channel (4) is designed such that the air/liquid stream is directed for radial direction reversal and acceleration onto the impact surface.

IPC 8 full level
A47L 1/05 (2006.01); **A47L 7/00** (2006.01); **A47L 9/06** (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP US)
A47L 1/05 (2013.01 - EP US); **A47L 5/24** (2013.01 - EP US); **A47L 7/0004** (2013.01 - EP US); **A47L 7/0009** (2013.01 - US);
A47L 7/0023 (2013.01 - EP US); **A47L 7/0028** (2013.01 - US); **A47L 9/0626** (2013.01 - EP US); **A47L 11/4016** (2013.01 - EP US);
A47L 11/4027 (2013.01 - EP US); **A47L 11/4044** (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)
DE 102011050697 A1 20121129; CN 203815383 U 20140910; CN 204169772 U 20150225; DE 202012012814 U1 20131205;
DE 202012012815 U1 20131205; DK 2701568 T3 20150713; EP 2701568 A1 20140305; EP 2701568 B1 20150520; EP 2820989 A2 20150107;
EP 2820989 A3 20150408; EP 2820989 B1 20160420; EP 2959814 A1 20151230; EP 2959814 B1 20160914; PL 2820989 T3 20161031;
US 2014109340 A1 20140424; US 2015208886 A1 20150730; US 9021654 B2 20150505; US 9615705 B2 20170411;
WO 2012163926 A1 20121206

DOCDB simple family (application)
DE 102011050697 A 20110527; CN 201290000552 U 20120529; CN 201420469156 U 20120529; DE 202012012814 U 20120529;
DE 202012012815 U 20120529; DK 12724975 T 20120529; EP 12724975 A 20120529; EP 14180641 A 20120529; EP 15176753 A 20120529;
EP 2012060067 W 20120529; PL 14180641 T 20120529; US 201214122860 A 20120529; US 201514685182 A 20150413