

Title (en)
SUCTION NOZZLE AND HARD-SURFACE SUCTION APPARATUS

Title (de)
SAUGDÜSE UND HARTFLÄCHENABSAUGGERÄT

Title (fr)
BUSE D'ASPIRATION ET APPAREIL D'ASPIRATION DE SURFACES DURES

Publication
EP 3518720 B1 20200701 (DE)

Application
EP 16777638 A 20160928

Priority
EP 2016073129 W 20160928

Abstract (en)
[origin: WO2018059679A1] The invention relates to a suction nozzle (12) for a portable hard-surface suction device (10), comprising a suction nozzle housing (30), in which a suction channel (38) is arranged and on the housing end face (40) of which an elastically deformable pull-off lip (44) and an elastically deformable support lip (46) are arranged, which protrude from the suction nozzle housing (30) and define a suction chamber (80) therebetween, which the suction channel (38) adjoins, wherein the pull-off lip (44) has, at the front end region thereof protruding from the suction nozzle housing (30), a pull-off lip edge (54) and wherein the support lip (46) has, at the front end region thereof protruding from the suction nozzle housing (30), a support lip edge (56), wherein the pull-off lip edge (54) is arranged behind the support lip edge (56) with respect to a pull-off direction (108) of the suction nozzle (12) and the support lip (46) has at least one through-hole. According to the invention, in order to further develop the suction nozzle (12) in such a way that an improved cleaning result can be achieved, the pull-off lip (44) has a longitudinal section (50) protruding forward from the housing end face (40) in the direction facing away from the suction channel (38), which longitudinal section is adjoined by at least one pull-off lip extension (52), which is inclined in relation to the longitudinal section (50) in the undeformed base position of the pull-off lip (44) and which forms a pull-off lip edge (54) at the free end of said pull-off lip extension. The invention further relates to a portable hard-surface suction device (10) having such a suction nozzle (12).

IPC 8 full level
A47L 1/05 (2006.01)

CPC (source: EP)
A47L 1/05 (2013.01); **A47L 1/16** (2013.01)

Citation (opposition)
Opponent : Leifheit AG

- WO 2016029967 A1 20160303 - KAERCHER GMBH & CO KG ALFRED [DE]
- DE 202016100286 U1 20160203 - LEIFHEIT AG [DE]
- EP 2837316 A2 20150218 - HOOVER LTD [GB]
- DE 102013021277 A1 20150702 - NILFISK ADVANCE AS [DK]
- WO 2012119933 A1 20120913 - GOETTLER KARL [DE]
- US 6112367 A 20000905 - BURR JEAN-MARC [FR], et al
- US 2003028995 A1 20030213 - IKEDA YASUSHI [JP]
- WO 2014198559 A1 20141218 - BEIJ JACQUES [DE]
- EP 2929819 A1 20151014 - DIETZ STEFAN [DE]

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)
WO 2018059679 A1 20180405; CN 109640766 A 20190416; CN 109640766 B 20210514; EP 3518720 A1 20190807; EP 3518720 B1 20200701; EP 3518720 B2 20240605; PL 3518720 T3 20201130

DOCDB simple family (application)
EP 2016073129 W 20160928; CN 201680088630 A 20160928; EP 16777638 A 20160928; PL 16777638 T 20160928