

Title (en)
Nozzle for vaccum cleaner

Title (de)
Bodendüse für Staubsauger

Title (fr)
Buse d'aspiration pour aspirateur

Publication
EP 1674012 A3 20070718 (DE)

Application
EP 05018123 A 20050820

Priority
DE 102004061971 A 20041223

Abstract (en)
[origin: EP1674012A2] The floor nozzle has a first function position for cleaning wide floor surfaces and a second position for narrow floor surfaces. The nozzle has a suction head (1) with a base surface defined by two broad sides (2) and two narrow sides (3). It also has a tilt hinge (4) comprising a channel connector piece (5) shaped to the shape of the suction head, and a pivotal channel section. A curved section of tube (7) with an approx. 90 deg. curve, is connected in a rotatable manner with the moveable channel section (6) of the hinge, and has a connector end for a suction tube. The moveable channel section is pivoted in the first position such that the rotary axis of the rotary connection between the curved tube and the moveable section slopes downwards to the floor. In the second position, the moveable section is pivoted so far into the channel connector piece that the rotary axis of the connection is horizontal.

IPC 8 full level
A47L 9/02 (2006.01)

CPC (source: EP US)
A47L 9/02 (2013.01 - EP US)

Citation (search report)

- [X] JP 2001157652 A 20010612 - MATSUSHITA ELECTRIC IND CO LTD
- [X] FR 2417285 A1 19790914 - MIELE & CIE [DE]
- [X] FR 1501935 A 19671118 - OLIVIER ETS GEORGES
- [AD] DE 10017705 A1 20011018 - WESSEL WERK GMBH [DE]

Cited by
AU2012223075B2; EP3225145A3; ITUA20162159A1; US10292555B2; US8966711B2; WO2012117231A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1674012 A2 20060628; EP 1674012 A3 20070718; EP 1674012 B1 20081210; AT E416661 T1 20081215; CN 100409796 C 20080813; CN 1792310 A 20060628; DE 102004061971 A1 20060706; DE 102004061971 B4 20120426; DE 502005006198 D1 20090122; ES 2319546 T3 20090508; US 2006137134 A1 20060629

DOCDB simple family (application)
EP 05018123 A 20050820; AT 05018123 T 20050820; CN 200510118675 A 20051107; DE 102004061971 A 20041223; DE 502005006198 T 20050820; ES 05018123 T 20050820; US 25079205 A 20051014