

Title (en)

Nozzle assembly of vacuum cleaner for both wet and dry cleaning

Title (de)

Mundstückanordnung für Sauger zur Nass- und Trockenreinigung

Title (fr)

Ensemble d'embout pour aspirateur destiné au nettoyage par voie humide ou sèche

Publication

EP 1508292 A3 20080611 (EN)

Application

EP 04018474 A 20040804

Priority

- KR 20030056928 A 20030818
- KR 20030072108 A 20031016
- KR 20040017159 A 20040313
- KR 20040025461 A 20040413
- KR 20040025462 A 20040413

Abstract (en)

[origin: EP1508292A2] The present invention relates to a nozzle assembly of a vacuum cleaner for both wet and dry cleaning. The nozzle assembly of the present invention comprises a suction head 220 installed at an end of an extension tube 210 connected to a main body of the vacuum cleaner to suck a cleaning fluid and foreign substances while moving on a floor; a sprayer 230 installed on an upper surface of the suction head 220 to spray the cleaning fluid toward a front end of the suction head 220; a nozzle cover 226 for defining, on the upper surface of the suction head 220, a spray flow passage 227 through which the cleaning fluid sprayed from the sprayer flows; downstream ribs 224 provided at a downstream side of the spray flow passage 227 defined by the nozzle cover 226 and having penetrating portions 225 allowing passage of the cleaning fluid therethrough formed at predetermined intervals between adjacent downstream ribs; and an upstream rib 240 which shields the spray flow passage 227 corresponding to a space between the sprayer 230 and the downstream ribs 224 and is formed with penetrating portions 241 at positions except a position to which the cleaning fluid sprayed from the sprayer 230 is delivered directly. According to the present invention, when a user performs wet cleaning, he/she can perform the cleaning by pushing the nozzle assembly forward. Thus, less force is required for the cleaning. Further, since the cleaning fluid sprayed from the sprayer is uniformly discharged through the entire front end of the nozzle assembly, cleaning can be more firmly performed.

IPC 8 full level

A47L 11/34 (2006.01); **A47L 9/02** (2006.01)

CPC (source: EP)

A47L 9/02 (2013.01); **A47L 11/34** (2013.01); **A47L 11/4083** (2013.01); **A47L 11/4088** (2013.01)

Citation (search report)

- [A] US 1803693 A 19310505 - CUTTING HERBERT A
- [A] US 5555598 A 19960917 - GRAVE DALE L [US], et al
- [A] GB 2240467 A 19910807 - HOOVER PLC [GB]
- [A] US 4887330 A 19891219 - WOODHALL MICHAEL B [GB], et al

Cited by

US2017251896A1; EP2623007A3; US10413147B2; US11058275B2; US2021378478A1; US2021106195A1; US11484174B2; US9713411B2; WO2017151976A1; WO2016064439A1; US11383993B2; US11440820B2; US11479484B2; US11498856B2; US11565952B2; US11623880B2; US11629076B2; US11661357B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1508292 A2 20050223; **EP 1508292 A3 20080611**; **EP 1508292 B1 20110323**; CN 100502749 C 20090624; CN 1582835 A 20050223

DOCDB simple family (application)

EP 04018474 A 20040804; CN 200410056775 A 20040818