

Title (en)

Nozzle for smooth floors and for textile floor coverings

Title (de)

Staubsaugerdüse für Glattböden und textile Bodenbeläge

Title (fr)

Suceur pour sols plats et pour revêtements textiles de sol

Publication

EP 1449477 A3 20071205 (DE)

Application

EP 04001286 A 20040122

Priority

DE 10307176 A 20030220

Abstract (en)

[origin: US2004216267A1] A vacuum cleaner nozzle for floors and carpets having a housing comprised of an upper part and a slide sole, a pivotable rocker located in the housing on a rear segment in working direction and an actuating lever to operate the rocker. Strip-shaped gasket elements are attached to the rocker, which are arranged in working direction in front of and behind a suction port formed into the slide sole and can be retracted and moved out of openings on the lower side of the housing with a pivoting movement of the rocker.

IPC 8 full level

A47L 9/06 (2006.01)

CPC (source: EP US)

A47L 9/06 (2013.01 - EP US); **A47L 9/0653** (2013.01 - EP US)

Citation (search report)

- [X] DE 9200692 U1 19920423
- [A] EP 1190662 A1 20020327 - WESSEL WERK GMBH [DE]
- [A] EP 1092380 A1 20010418 - MILLET MARIUS [FR]
- [A] FR 2096898 A1 19720303 - OLIVIER GEORGES ETS [FR]
- [DA] EP 0898923 A1 19990303 - WESSEL WERK GMBH [DE]
- [A] DE 4037432 A1 19910814 - REXAIR INC [US]
- [A] DE 3330989 A1 19850314 - RICHARD HEINZE KUNSTSTOFF SPRI [DE]
- [A] GB 2260892 A 19930505 - GOLD STAR CO [KR]

Cited by

CN104433960A; CN104433961A

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 PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

US 2004216267 A1 20041104; US 7251856 B2 20070807; CN 1296003 C 20070124; CN 1522654 A 20040825; DE 10312905 A1 20040909; DE 10312905 B4 20050113; DE 10312906 A1 20040909; DE 10312906 B4 20060504; DE 502004007933 D1 20081009; DE 502004009109 D1 20090423; EP 1449477 A2 20040825; EP 1449477 A3 20071205; EP 1449477 B1 20090311; HK 1066710 A1 20050401

DOCDB simple family (application)

US 77897604 A 20040213; CN 200410003931 A 20040210; DE 10312905 A 20030322; DE 10312906 A 20030322; DE 502004007933 T 20040116; DE 502004009109 T 20040122; EP 04001286 A 20040122; HK 04109863 A 20041214