

Title (en)

Nozzle for smooth surfaces 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 1449476 A3 20071205 (DE)

Application

EP 04000810 A 20040116

Priority

- DE 10307176 A 20030220
- DE 10312906 A 20030322

Abstract (en)

[origin: EP1449476A2] The plastic housing (1) has a lever (8) which operates to lower one or two strip elastomeric or brush seals (5,5') against compression springs (11) acting on a carrier for the seals, (20) for the forward seal (5) and (20') for the other within the sole plate (2).

IPC 8 full level

A47L 9/06 (2006.01); **A47L 9/02** (2006.01)

CPC (source: EP US)

A47L 9/02 (2013.01 - EP US); **A47L 9/06** (2013.01 - EP US); **A47L 9/0653** (2013.01 - EP US)

Citation (search report)

- [A] DE 9200692 U1 19920423
- [A] NL 7903564 A 19801111 - WESSEL HANS
- [A] DE 29608726 U1 19960711 - SIEMENS AG [DE]
- [A] DE 8324689 U1 19850718
- [A] GB 2260892 A 19930505 - GOLD STAR CO [KR]
- [A] DE 3009648 A1 19810917 - WESSEL HANS

Cited by

CN103536247A; EP2875765A1; DE202017100702U1

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)

EP 1449476 A2 20040825; EP 1449476 A3 20071205; EP 1449476 B1 20080827; CN 1298278 C 20070207; CN 1522655 A 20040825; HK 1066711 A1 20050401; US 2004216268 A1 20041104; US 7222393 B2 20070529

DOCDB simple family (application)

EP 04000810 A 20040116; CN 200410003690 A 20040206; HK 04109892 A 20041214; US 77902704 A 20040213