

Title (en)

Suction nozzle couplig device for vacuum cleaner

Title (de)

Saugvorsatz mit Kupplungsvorrichtung für Staubsauger

Title (fr)

Suceur d'aspirateur avec embout de raccordement

Publication

**EP 1647219 B1 20080723 (DE)**

Application

**EP 05018243 A 20050823**

Priority

- DE 102004050471 A 20041016
- DE 102004052306 A 20041028

Abstract (en)

[origin: EP1647219A2] A swivel element (SE) (2) fits on a suction adapter so as to swivel and links to a corresponding turning element (TE) as a link to a vacuum/floor cleaner so as to make a link with a turning motion. The SE and TE intermesh and have interlocking grooves running round in an SE/TE connection area so as to hold sections and form a guiding/retaining ring.

IPC 8 full level

**A47L 9/24** (2006.01)

CPC (source: EP US)

**A47L 9/02** (2013.01 - EP US)

Cited by

EP2452600A1; EP2030550A3; CN102038455A; US8813308B2; WO2011045580A1; WO2009125185A1; US8336165B2; EP2030550A2; US8429791B2; US8201302B2; US9326653B2; US8186007B2; US8272097B2; US8438699B2; US8181309B2; US8595897B2

Designated contracting state (EPC)

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**EP 1647219 A2 20060419; EP 1647219 A3 20070314; EP 1647219 B1 20080723;** AT E401819 T1 20080815; CA 2523614 A1 20060416; CA 2523614 C 20130716; DE 102004052306 A1 20060420; DE 502005004787 D1 20080904; US 2006080803 A1 20060420; US 7503098 B2 20090317

DOCDB simple family (application)

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