

Title (en)
Multifunctional terminal for external suction tubes of vacuum-operated electrical domestic appliances

Title (de)
Mehrzweckmundstück für äussere Saugrohre von elektrischen Vakuum-Hausgeräten

Title (fr)
Embout multifonctionnel pour tubes externes d'aspiration d'appareils électroménagers à dépression

Publication
EP 1330977 A3 20050202 (EN)

Application
EP 03000254 A 20030108

Priority
IT MO20020018 A 20020125

Abstract (en)
[origin: EP1330977A2] The multifunctional terminal (1) for external suction tubes (2) of vacuum-operated electrical domestic appliances comprises a tubular body (3) forming a spear-shaped mouth (4) at a distal end (5) and a cylindrical mouth (6) at the opposite, proximal end (7) capable of being coupled by pressure-fitting to the head of the said external suction tube (2), at least one pair of parallel guides (8) formed in diametrically opposite positions on the external surface of the said tubular body (3), at least one cleaning accessory (9) comprising an active end (11) and, opposite to the latter, a tubular base (12) provided with means (13) for twist-and-slide coupling to the said parallel guides (8) for longitudinal sliding therein between the said proximal end (7) and distal end (5), and vice versa, of the said tubular body (3) and the rotation of the said accessory (9) at the distal end (5) for the coaxial fitting of the said base (12) on the said distal end (5) of the said tubular body (3), and means (14) for retaining the said cleaning accessory (9) in the substantially proximal position of non-use of the said guides (8). <IMAGE>

IPC 1-7
A47L 9/02; **A47L 9/06**

IPC 8 full level
A47L 9/02 (2006.01); **A47L 9/06** (2006.01)

CPC (source: EP US)
A47L 9/02 (2013.01 - EP US); **A47L 9/06** (2013.01 - EP US); **A47L 9/068** (2013.01 - EP US)

Citation (search report)
• [A] US 5046218 A 19910910 - CERRI DAVID D [US]
• [A] DE 29610327 U1 19960814 - SIEMENS AG [DE]
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05 14 September 2000 (2000-09-14)
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06 22 September 2000 (2000-09-22)

Cited by
CN100372491C; JP2006095227A

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 SE SI SK TR

DOCDB simple family (publication)
EP 1330977 A2 20030730; **EP 1330977 A3 20050202**; AU 2003200098 A1 20030814; CA 2415594 A1 20030725; IT MO20020018 A1 20030725; JP 2003210364 A 20030729; US 2003140450 A1 20030731

DOCDB simple family (application)
EP 03000254 A 20030108; AU 2003200098 A 20030114; CA 2415594 A 20021231; IT MO20020018 A 20020125; JP 2003004869 A 20030110; US 34736103 A 20030121