

Title (en)
Extension pipe supporting apparatus and a vacuum cleaner having the same

Title (de)
Stützvorrichtung für Verlängerungsrohr und damit versehener Staubsauger

Title (fr)
Appareil de support pour un tube de rallonge et aspirateur comprenant celui-ci

Publication
EP 1604604 A3 20071226 (EN)

Application
EP 05356033 A 20050214

Priority
KR 20040042028 A 20040609

Abstract (en)
[origin: EP1604604A2] An extension pipe supporting apparatus (100) is pivotally attached to a vacuum cleaner extension pipe (40) so as to be retractable into a storage position. The extension pipe supporting apparatus (100) provides an included support (120) for a vacuum cleaner extension pipe (40) by which a vacuum cleaner extension pipe (40) can be independently supported in a substantially upright position. The extension pipe supporting apparatus (100) comprises a shell member mounted to an extension pipe of the vacuum cleaner, and a supporting member (120) engaged with the shell member and pivoting between a first position and a second position, the first position in which the extension pipe is supported in a standing posture on a floor and the second position in which the supporting member is folded to be in contact with the extension pipe. Accordingly, the user can keep the extension pipe in a standing posture on a floor, and therefore, the user does not have to bend over to pick up the extension pipe from the floor when restarting the cleaning work.

IPC 8 full level
A47L 9/00 (2006.01); **A47L 9/24** (2006.01)

CPC (source: EP KR US)
A47L 9/0009 (2013.01 - EP US); **A47L 9/0054** (2013.01 - EP US); **A47L 9/24** (2013.01 - KR); **A47L 9/248** (2013.01 - EP US)

Citation (search report)
• [XA] DE 19520236 A1 19961205 - MICHALKE RAYMUND [DE]
• [XA] FR 2516372 A1 19830520 - LARSSON BROR [SE]
• [XA] EP 1388318 A1 20040211 - VAN DER STEEN DIRK [BE], et al
• [XA] DE 10141088 C1 20030417 - AEG HAUSGERAETE GMBH [DE]
• [A] DE 10252770 A1 20040527 - HAGER RUPERT [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1604604 A2 20051214; EP 1604604 A3 20071226; CN 1327804 C 20070725; CN 1706328 A 20051214; JP 2005349173 A 20051222; JP 4041484 B2 20080130; KR 100592099 B1 20060621; KR 20050116917 A 20051214; RU 2004136793 A 20060527; RU 2283611 C2 20060920; US 2005273972 A1 20051215

DOCDB simple family (application)
EP 05356033 A 20050214; CN 200410098045 A 20041202; JP 2004296760 A 20041008; KR 20040042028 A 20040609; RU 2004136793 A 20041215; US 99106204 A 20041117