

Title (en)
Telescopic vacuum cleaner suction pipe

Title (de)
Teleskopierbares Staubsauger-Saugrohr

Title (fr)
Tube d'aspiration télescopique pour aspirateur

Publication
EP 1055388 A3 20020102 (DE)

Application
EP 00106781 A 20000330

Priority
DE 19924450 A 19990528

Abstract (en)
[origin: US6431607B1] A vacuum-cleaner pipe assembly can have inner and outer pipes telescopically engaged with one another and on a sleeve surrounding the inner pipe, a locking body which engages in selected detents formed on the inner pipe. A rocker or rotatable eccentric in a housing on the sleeve surrounding the inner pipe bears directly against the locking body and is biased by a spring into the locking position.

IPC 1-7
A47L 9/24

IPC 8 full level
A47L 9/24 (2006.01)

CPC (source: EP KR US)
A47L 9/24 (2013.01 - KR); **A47L 9/244** (2013.01 - EP US); **Y10S 285/921** (2013.01 - EP US)

Citation (search report)
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• [A] DE 19632400 A1 19970918 - VORWERK CO INTERHOLDING [DE]
• [A] DE 19630286 A1 19980129 - MIELE & CIE [DE]
• [A] US 4494270 A 19850122 - RITZAU WILLIAM P [US], et al
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• [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 257 (C - 1200) 17 May 1994 (1994-05-17)

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US 6431607 B1 20020813; AT E281111 T1 20041115; CA 2310507 A1 20001128; CN 1122496 C 20031001; CN 1275362 A 20001206; CZ 20001202 A3 20010117; CZ 294855 B6 20050316; DE 19924450 C1 20000615; DE 50008472 D1 20041209; DK 1055388 T3 20050124; EE 03995 B1 20030415; EE 200000167 A 20010215; EP 1055388 A2 20001129; EP 1055388 A3 20020102; EP 1055388 B1 20041103; ES 2231063 T3 20050516; HK 1036391 A1 20020104; HU 0001965 D0 20000728; HU P0001965 A2 20010428; HU P0001965 A3 20020528; JP 2001017366 A 20010123; KR 100366473 B1 20030109; KR 20010039571 A 20010515; NO 20001675 D0 20000331; NO 20001675 L 20001129; PL 193775 B1 20070330; PL 339691 A1 20001204; RU 2235495 C2 20040910; SK 4922000 A3 20001211; UA 68362 C2 20040816

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US 57860000 A 20000525; AT 00106781 T 20000330; CA 2310507 A 20000529; CN 00108395 A 20000517; CZ 20001202 A 20000403; DE 19924450 A 19990528; DE 50008472 T 20000330; DK 00106781 T 20000330; EE P200000167 A 20000517; EP 00106781 A 20000330; ES 00106781 T 20000330; HK 01102346 A 20010331; HU P0001965 A 20000518; JP 2000182228 A 20000516; KR 20000019940 A 20000417; NO 20001675 A 20000331; PL 33969100 A 20000414; RU 2000109712 A 20000421; SK 4922000 A 20000405; UA 2000042085 A 20000411