

Title (en)  
Cyclonic back-pack vacuum cleaner.

Title (de)  
Zyklon-Rückenstaubsauger.

Title (fr)  
Aspirateur cyclone dorsal.

Publication  
**EP 0557096 A1 19930825**

Application  
**EP 93301200 A 19930218**

Priority  
CA 2061469 A 19920219

Abstract (en)  
A back-pack vacuum cleaner (10) comprises a back-pack harness (12) an upper casing (14) attached to the harness and a lower casing (16) rotatably mounted on the upper casing. A cyclonic cleaning assembly (60) is mounted within the upper casing such that at least part of the assembly extends into the lower casing. The motor (80) is positioned within the upper casing above the cyclonic cleaning assembly. <IMAGE>

IPC 1-7  
**A47L 5/36; A47L 9/16**

IPC 8 full level  
**A47L 5/00** (2006.01); **A47L 5/36** (2006.01); **A47L 9/12** (2006.01); **A47L 9/16** (2006.01)

CPC (source: EP)  
**A47L 5/36** (2013.01); **A47L 9/127** (2013.01); **A47L 9/1633** (2013.01)

Citation (search report)  
• [Y] DE 8904591 U1 19890706  
• [Y] US 5062870 A 19911105 - DYSON JAMES [GB]  
• [Y] FR 2372616 A1 19780630 - PHILIPS NV [NL]  
• [Y] EP 0362169 A2 19900404 - ELECTROLUX AB [SE]  
• [A] EP 0033250 A1 19810805 - NUMATIC ENG LTD [GB]  
• [A] FR 946682 A 19490610 - MORS ELECTRICITE

Cited by  
EP0923992A3; KR20180077136A; KR20180023776A; KR20180078199A; KR20180077135A; KR20190128137A; EP1523917A3; KR20180077137A; KR20190127652A; USRE39473E; GB2360960A; GB2360960B; EP0734217A4; GB2296452A; AU691710B2; US5853440A; US5893936A; EP1466550A1; CN105747989A; CN113453601A; US6341404B1; US7018439B2; EP0836827A1; WO02067752A1; US11871890B2; US10646082B2; US11172798B2; WO2004084672A1; WO9937198A1; WO9619936A1; WO9619937A1; WO0150938A1; WO0036967A1; KR100585497B1; KR20180051477A; KR20180051476A; KR20180053615A; KR20180053617A; KR20180052586A; US10433688B2; US10561287B2; US10568475B2; US10568476B2; US10568474B2; US10575689B2; US10912432B2; US10980380B2; US11116368B2; US11147422B2; US11166607B2; US11166608B2; US11426039B2; US11937758B2; US11992169B2; US12011135B2; US2018333031A1; US10492653B2; US10582821B2; US10617269B2; US10617270B2; US10631698B2; US10750917B2; US10939789B2; US10945573B2; US11179015B2; US11229337B2; US11963654B2; US12004701B2

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**EP 0557096 A1 19930825**; AU 3307193 A 19930826; CA 2061469 A1 19930820; CA 2061469 C 19961119; JP H0654778 A 19940301

DOCDB simple family (application)  
**EP 93301200 A 19930218**; AU 3307193 A 19930216; CA 2061469 A 19920219; JP 3021193 A 19930219