

Title (en)
Vacuum cleaner having primary and secondary cyclone units

Title (de)
Staubsauger mit primärer und sekundären Zykloneinheiten

Title (fr)
Aspirateur avec unités cycloniques primaires et secondaires

Publication
EP 1857032 A3 20090715 (EN)

Application
EP 06125823 A 20061211

Priority
• KR 20060044362 A 20060517
• KR 20060044359 A 20060517

Abstract (en)
[origin: EP1857032A2] A vacuum cleaner (10) is provided. The vacuum cleaner (10) includes a main body (100) in which a suction generating unit is disposed, a dust collection unit (200) detachably mounted on a front portion of the main body (100) and having a primary cyclone unit for separating dusts contained in air, a secondary cyclone unit (300) provided in the main body (100), and a discharge unit (120) formed in the main body (100) to discharge air whose dusts are separated at the secondary cyclone unit (300) out of the main body (100).

IPC 8 full level
A47L 9/16 (2006.01)

CPC (source: EP)
A47L 5/362 (2013.01); **A47L 9/1625** (2013.01); **A47L 9/1641** (2013.01)

Citation (search report)
• [XY] GB 2404887 A 20050216 - DYSON LTD [GB], et al
• [Y] WO 0074548 A1 20001214 - LG ELECTRONICS INC [KR], et al
• [X] WO 0160524 A1 20010823 - LG ELECTRONICS INC [KR], et al
• [X] US 2005252179 A1 20051117 - OH JANG-KEUN [KR], et al
• [X] GB 2416721 A 20060208 - DYSON LTD [GB], et al
• [A] US 2002088079 A1 20020711 - OH JANG-KEUN [KR]

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AU2008359307B2; US7987551B2; GB2506307B; GB2454690A; EP3247251A4; US7882592B2; US10492652B2; WO2016117893A1; US9974421B2; US7998234B2; US8959707B2; US7958598B2; US7992253B2; US8646148B2; US8707507B2

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 LV MC NL PL PT RO SE SI SK TR

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AL BA HR MK RS

DOCDB simple family (publication)
EP 1857032 A2 20071121; EP 1857032 A3 20090715; EP 1857032 B1 20120516; AU 2006249291 A1 20071206; AU 2006249291 B2 20090226; JP 2007307352 A 20071129; JP 4444946 B2 20100331; RU 2328961 C1 20080720

DOCDB simple family (application)
EP 06125823 A 20061211; AU 2006249291 A 20061211; JP 2006333719 A 20061211; RU 2006143773 A 20061211