

Title (en)  
Multi-cyclone dust collecting apparatus

Title (de)  
Multizyklonstaubabscheider

Title (fr)  
Appareil de collection de poussière à cyclone multiple

Publication  
**EP 1707096 A2 20061004 (EN)**

Application  
**EP 05292723 A 20051216**

Priority  
• US 66609105 P 20050329  
• KR 20050037703 A 20050504

Abstract (en)  
A multi-cyclone dust collecting apparatus with improved dust collecting efficiency and suction force is provided. The multi-cyclone dust collecting apparatus includes a first (100) and a second (200) multi-cyclone units having a first cyclone (110) which collects large particles of dust and a second cyclone (120) for collecting fine particles of dust; an air inlet (300) through which dust-laden air is separated and flowed into the first (100) and the second (200) multi-cyclone units, respectively; and an air outlet (400) through which air from the second cyclone (120) of the first (100) and the second (200) multi-cyclone units is gathered and externally discharged. Because air is branched off once it is drawn into a single gate and dust is separated from the drawn air simultaneously in the plurality of multi-cyclone dust collecting apparatuses, reduction of flow speed in the dust-laden air from the suction brush can be prevented.

IPC 8 full level  
**A47L 9/16** (2006.01); **B04C 5/04** (2006.01); **B04C 5/26** (2006.01); **B04C 5/28** (2006.01)

CPC (source: EP)  
**A47L 9/1625** (2013.01); **A47L 9/1641** (2013.01); **B04C 5/04** (2013.01); **B04C 5/26** (2013.01); **B04C 5/28** (2013.01)

Citation (applicant)  
FR 2859373 A1 20050311 - SAMSUNG KWANGJU ELECTRONICS CO [KR]

Cited by  
EP1837079A1; CN102772172A; CN104586319A; EP1938733A1; GB2445027B; GB2436281B; EP2931849A4; US11806686B2; US10244614B2; US10638592B2; US9790108B2; US10412820B2; US10267106B2; US7753976B2; US7955405B2; US9781817B2; US10098191B2; US10117318B2; US9869277B2; US10395892B2; US10030195B2; US9644465B2; US9951942B2; US10018351B2; US10184322B2; EP1915084B2

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DOCDB simple family (application)  
**EP 05292723 A 20051216**; AU 2005247000 A 20051221; JP 2005327839 A 20051111; RU 2005141222 A 20051229