

Title (en)  
Device for a vacuum cleaner.

Title (de)  
Staubsaugergerät.

Title (fr)  
Dispositif pour aspirateur.

Publication  
**EP 0650690 A1 19950503 (EN)**

Application  
**EP 94850189 A 19941026**

Priority  
SE 9303598 A 19931102

Abstract (en)  
This invention relates to a device for a vacuum cleaner having a suction nozzle and a dust bag (12) which is connected to the nozzle for instance by means of a tube connection, a turbo fan unit (27) driven by an electric motor and placed after the dust bag seen in the flow direction. The impeller (29) of the turbo fan unit is driven at a speed which is above 50.000 rpm the primary air flow created by the turbo fan unit (27) being arranged to directly or indirectly leave the unit via an outlet (30) to atmosphere. The vacuum cleaner is provided with means (45) by means of which a secondary air flow is created which at least partly cools the electric motor (32) and which flows into the electric motor via one or several inlets (44) for cooling air which are separated from the primary air flow. <IMAGE>

IPC 1-7  
**A47L 9/22**

IPC 8 full level  
**A47L 5/24** (2006.01); **A47L 9/22** (2006.01); **F04D 25/08** (2006.01)

CPC (source: EP)  
**A47L 9/22** (2013.01); **F04D 25/082** (2013.01); **F04D 29/5806** (2013.01)

Citation (search report)  
• [PDA] WO 9415519 A1 19940721 - ELECTROLUX AB [SE], et al  
• [A] FR 811248 A 19370409 - MAUZ ET PFEIFFER  
• [A] DE 7442752 U 19851024  
• [A] US 2272985 A 19420210 - SMITH LESTER C  
• [A] US 2531342 A 19501121 - METZ HARRY E

Cited by  
WO2021136682A1; EP3343044A1; CN114652214A; EP3845106A1; FR2810871A1; GB2363975A; GB2363975B; GB2621026A; US7425119B2; EP3376043A1; EP3795840A1; EP4234949A3; WO2004031590A1; WO2007035695A3; US6813807B2; US11085454B2; US11686314B2; WO2006131470A3; EP3437533A4; EP3892178A1; US9261104B2; US10646082B2; US11172798B2; US10433688B2; US10561287B2; US10568475B2; US10568476B2; US10568474B2; US10575689B2; US10912432B2; US10980380B2; US11116368B2; US11147422B2; US11166607B2; US11166608B2; US11426039B2; US11937758B2; US11992169B2; US12011135B2; US7922466B2; US2018333031A1; US10492653B2; US10582821B2; US10617269B2; US10617270B2; US10631698B2; US10750917B2; US10939789B2; US10945573B2; US11179015B2; US11229337B2; US11963654B2; US12004701B2; WO2017171499A1

Designated contracting state (EPC)  
DE DK ES FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0650690 A1 19950503; EP 0650690 B1 19980708**; CA 2134732 A1 19950503; CN 1110908 A 19951101; DE 69411498 D1 19980813; DE 69411498 T2 19990218; ES 2119139 T3 19981001; FI 945144 A0 19941101; FI 945144 A 19950503; JP H07178012 A 19950718; NO 944117 D0 19941028; NO 944117 L 19950503; RU 94041751 A 19961110; SE 501982 C2 19950703; SE 9303598 D0 19931102; SE 9303598 L 19950503

DOCDB simple family (application)  
**EP 94850189 A 19941026**; CA 2134732 A 19941031; CN 94118333 A 19941102; DE 69411498 T 19941026; ES 94850189 T 19941026; FI 945144 A 19941101; JP 26876294 A 19941101; NO 944117 A 19941028; RU 94041751 A 19941101; SE 9303598 A 19931102