

Title (en)

DEVICE FOR REGULATING AND/OR DISPLAYING THE OPERATION OF SUCTION CLEANERS

Publication

**EP 0373353 B1 19930317 (DE)**

Application

**EP 89120569 A 19891107**

Priority

- DE 3842320 A 19881216
- DE 3914306 A 19890429

Abstract (en)

[origin: EP0373353A1] In a device for regulating the operation of a suction cleaner and for indicating the dust bag filling level, a pipe blockage, air leaks and the like, it is proposed to arrange, in the outgoing airstream produced by a suction cleaner blower, behind the blower and behind the dust bag (13), an air turbine (19) whose rotational speed is determined in a contact-free manner and converted into an electrical display signal and supplied to a regulating circuit for controlling the blower motor (15). Depending upon the determined quantity of outgoing air, the respective operating state of the suction cleaner or the dust-bag filling level can thus furthermore be determined, changing signals displayed and also finely graduated percentage data and written information visually presented to the user. A combination with pressure values determined by diaphragm switches makes possible finally a reliable discrimination of the operating states to be displayed. <IMAGE>

IPC 1-7

**A47L 9/28**

IPC 8 full level

**A47L 9/28** (2006.01)

CPC (source: EP KR US)

**A47L 9/28** (2013.01 - KR); **A47L 9/2821** (2013.01 - EP US); **A47L 9/2842** (2013.01 - EP US); **A47L 9/2857** (2013.01 - EP US);  
**A47L 9/2894** (2013.01 - EP US)

Cited by

EP1897479A3; DE102015100636A1; EP1980190A3; EP0541863A1; DE102012200765A1; EP0584743A1; US5404612A; DE102011052020A1;  
EP0678271A3; EP1897479A2; US8281455B2; DE102022200465A1; US8172932B2; WO0128401A1; US8240001B2; US8312593B2;  
EP2548491A1; US8544143B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0373353 A1 19900620**; **EP 0373353 B1 19930317**; DE 3914306 A1 19900628; DE 3914306 C2 19910808; DE 58903811 D1 19930422;  
ES 2040437 T3 19931016; JP H02213316 A 19900824; KR 900009017 A 19900702; KR 940009653 B1 19941015; US 5033151 A 19910723

DOCDB simple family (application)

**EP 89120569 A 19891107**; DE 3914306 A 19890429; DE 58903811 T 19891107; ES 89120569 T 19891107; JP 32410989 A 19891215;  
KR 890018540 A 19891214; US 43743289 A 19891115