

Title (en)

Suction cleaner with a detection device for filter bag

Title (de)

Staubsauger mit einer Detektionseinrichtung für Filterbeutel

Title (fr)

Aspirateur comportant un dispositif de détection de sac à poussière

Publication

EP 0790030 B1 20001213 (DE)

Application

EP 97100442 A 19970114

Priority

DE 19605780 A 19960216

Abstract (en)

[origin: EP0790030A1] The detector incorporates a sensor (19) for the plate-like connection piece (11) of cardboard bonded around the opening of the bag (10) and retained in position against a wall (12) of the cleaner by a hook (15) over its edge and a catch (16) protruding through a hole (17). The sensor has a printed circuit responsive to the reflection of electromagnetic waves from a metallic film or plate (18) applied to a portion of the cardboard. The signal is evaluated to establish the correct placement of the bag before the motor is switched-on.

IPC 1-7

A47L 9/14

IPC 8 full level

A47L 9/14 (2006.01); **A47L 9/19** (2006.01); **A47L 9/28** (2006.01)

CPC (source: EP US)

A47L 9/1436 (2013.01 - EP US); **A47L 9/1472** (2013.01 - EP US); **A47L 9/2805** (2013.01 - EP US); **A47L 9/2842** (2013.01 - EP US); **A47L 9/2894** (2013.01 - EP US); **Y10S 55/02** (2013.01 - EP US)

Cited by

EP1752077A3; EP0895744A1; EP1759620A3; EP3326506A1; US7921506B2; EP1759620A2; US7740707B2

Designated contracting state (EPC)

AT BE DE DK ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0790030 A1 19970820; **EP 0790030 B1 20001213**; AT E198030 T1 20001215; DE 19605780 A1 19970821; DE 59702744 D1 20010118; DK 0790030 T3 20010108; ES 2152582 T3 20010201; US 5907886 A 19990601

DOCDB simple family (application)

EP 97100442 A 19970114; AT 97100442 T 19970114; DE 19605780 A 19960216; DE 59702744 T 19970114; DK 97100442 T 19970114; ES 97100442 T 19970114; US 78929097 A 19970128