

Title (en)

METHOD FOR FORMING A STRONG CONNECTION BETWEEN A HOLDING PLATE AND THE WALL OF A VACUUM CLEANER FILTER BAG AND VACUUM CLEANER FILTER BAG

Title (de)

VERFAHREN ZUM STOFFSCHLÜSSIGEN VERBINDEN EINER HALTEPLATTE MIT DER WANDUNG EINES STAUBSAUGERFILTERBEUTELS SOWIE STAUBSAUGERFILTERBEUTEL

Title (fr)

PROCEDE DE LIAISON INTERPOSEE D'UNE PLAQUE DE SUPPORT ET D'UNE PAROI D'UN SAC D'ASPIRATEUR ET SAC D'ASPIRATEUR

Publication

EP 3178360 A1 20170614 (DE)

Application

EP 15199696 A 20151212

Priority

EP 15199696 A 20151212

Abstract (en)

[origin: WO2017098035A1] The present invention relates to methods for establishing an improved integral connection between a retaining plate and the wall of a vacuum-cleaner filter bag. According to a first variant, rather than the retaining plate being applied directly to the wall of the vacuum-cleaner filter bag, a textile material is arranged between the retaining plate and the wall. The retaining plate and the wall of the vacuum-cleaner filter bag are connected in this case via the textile material. According to a second variant, a film made of a thermoplastic material is arranged in certain regions between the retaining plate and wall of the vacuum-cleaner filter bag. The retaining plate and the wall of the vacuum-cleaner filter bag are connected in this case via the film. According to a third variant, the retaining plate is connected directly to the wall of the vacuum-cleaner filter bag. In this case, at least in the region in which the retaining plate is applied, the wall is in the form of a film made of special thermoplastic materials. The present invention likewise relates to vacuum-cleaner filter bags in which the retaining plate is connected integrally to the wall of the vacuum-cleaner filter bag in accordance with the above-mentioned principles.

Abstract (de)

Die vorliegende Erfindung betrifft Verfahren zur Herstellung eines verbesserten stoffschlüssigen Verbundes einer Halteplatte mit der Wandung eines Staubsaugerfilterbeutels.

IPC 8 full level

A47L 9/14 (2006.01)

CPC (source: EP US)

A47L 9/1436 (2013.01 - EP US)

Citation (applicant)

EP 2311358 A1 20110420 - EUROFILTERS HOLDING NV [BE]

Citation (search report)

- [XA] DE 202008002010 U1 20080626 - AICHNER FILTER GMBH [DE]
- [XA] DE 202008004025 U1 20090806 - WOLF PVG GMBH & CO KG [DE]
- [XA] EP 2025278 A1 20090218 - EUROFILTERS HOLDING NV [BE]

Cited by

EP3669735A1; EP3560402A1; CN112105280A; RU2753555C1; AU2019259443B2; WO2019206532A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3178360 A1 20170614; EP 3178360 B1 20220316; AU 2016366505 A1 20180628; AU 2016366505 B2 20220714; CN 108697286 A 20181023; CN 108697286 B 20210518; DK 3386363 T3 20240219; EP 3386363 A1 20181017; EP 3386363 B1 20240131; ES 2916748 T3 20220705; US 10925450 B2 20210223; US 2018368635 A1 20181227; WO 2017098035 A1 20170615

DOCDB simple family (application)

EP 15199696 A 20151212; AU 2016366505 A 20161212; CN 201680081239 A 20161212; DK 16809066 T 20161212; EP 16809066 A 20161212; EP 2016080568 W 20161212; ES 15199696 T 20151212; US 201616060746 A 20161212