

Title (en)

SPRING ARRANGEMENT FOR THE CLOSING FLAP OF A FILTER BAG

Title (de)

FEDERANORDNUNG FÜR EINE VERSCHLUSSKLAPPE EINER FILTERTÜTE

Title (fr)

ENSEMBLE RESSORT CONCU POUR LE CLAPET DE FERMETURE D'UN SAC-FILTRE

Publication

**EP 1480545 B1 20080416 (DE)**

Application

**EP 03743383 A 20030306**

Priority

- DE 10209718 A 20020306
- EP 0302290 W 20030306

Abstract (en)

[origin: WO03073903A1] The invention relates to a spring arrangement for the closing flap (14) of a vacuum cleaner filter bag (12), which is characterized in that the spring element (10) is configured as an extension spring that is mounted on the side of the closing flap (14) on which it extends across the hinge thereof and which is tension-loaded when the closing flap (14) is opened. The fastening points of the spring element (10) on the closing flap (12) and on the filter bag (12) are disposed in such a manner that it freely extends across the hinge up to a defined angle of opening of the closing flap (14) and that it is bent to rest on an edge or a surface disposed on or next to the hinge axis at a greater angle of opening.

IPC 8 full level

**A47L 9/14** (2006.01); **A47L 9/00** (2006.01)

CPC (source: EP)

**A47L 9/1454** (2013.01)

Cited by

EP3219235A1; WO2017158074A1; USD911642S; USD844265S; USD840615S; US11517163B2; US11607637B2; US11504662B2; US11602252B2; US11896922B2; EP3338610A1; WO2018115269A1; US10470625B2; US10531772B2; US10743731B2; US11363922B2; EP3219237A1; WO2017158085A1; US10939788B2; EP3219236A1; WO2017158098A1; US10905299B2; US10806316B2

Designated contracting state (EPC)

AT DE ES FR IT

DOCDB simple family (publication)

**WO 03073903 A1 20030912**; AT E392173 T1 20080515; AU 2003210424 A1 20030916; DE 10209718 A1 20030925; DE 50309628 D1 20080529; EP 1480545 A1 20041201; EP 1480545 B1 20080416; ES 2303903 T3 20080901

DOCDB simple family (application)

**EP 0302290 W 20030306**; AT 03743383 T 20030306; AU 2003210424 A 20030306; DE 10209718 A 20020306; DE 50309628 T 20030306; EP 03743383 A 20030306; ES 03743383 T 20030306