

Title (en)  
Holding plate for a vacuum cleaner filter bag

Title (de)  
Halteplatte für einen Staubsaugerfilterbeutel

Title (fr)  
Plaque de support pour un sac filtrant d'aspirateur

Publication  
**EP 2311358 B1 20151223 (DE)**

Application  
**EP 09013166 A 20091019**

Priority  
EP 09013166 A 20091019

Abstract (en)  
[origin: EP2311358A1] The plate has a base plate (402) made of plastic material and including a through opening (403). The base plate firmly connects a connecting element (407) made of another plastic material with bag wall using ultrasonic welding. The connecting element is arranged on the bag wall to a side of the base plate to be connected, where the plastic materials are selected from thermoplastic. The former plastic material is different from the latter plastic material, and the connecting element is partially or fully arranged in a recess. Independent claims are also included for the following: (1) a method for connecting a holding plate with bag wall (2) a method for manufacturing a holding plate.

IPC 8 full level  
**A47L 9/14** (2006.01)

CPC (source: EP US)  
**A47L 9/1445** (2013.01 - EP US)

Citation (examination)  
DE 202008004025 U1 20090806 - WOLF PVG GMBH & CO KG [DE]

Cited by  
DE202015008776U1; EP3178360A1; WO2017098035A1; US10925450B2

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2311358 A1 20110420; EP 2311358 B1 20151223**; AU 2010310182 A1 20120510; AU 2010310182 B2 20130711; CN 102686139 A 20120919; CN 102686139 B 20150401; DK 2311358 T3 20160215; ES 2560672 T3 20160222; PL 2311358 T3 20160531; RU 2012113637 A 20131127; RU 2526779 C2 20140827; US 10307030 B2 20190604; US 2012216494 A1 20120830; WO 2011047763 A1 20110428

DOCDB simple family (application)  
**EP 09013166 A 20091019**; AU 2010310182 A 20100921; CN 201080051976 A 20100921; DK 09013166 T 20091019; EP 2010005777 W 20100921; ES 09013166 T 20091019; PL 09013166 T 20091019; RU 2012113637 A 20100921; US 201013501400 A 20100921