

Title (en)  
IMPROVED STERILISING FILTER ARRANGEMENT, APPARATUS & METHOD

Title (de)  
VERBESSERTE STERILISATIONSFILTERANORDNUNG, VORRICHTUNG UND VERFAHREN

Title (fr)  
SYSTEME, APPAREIL ET PROCEDE AMELIORES POUR FILTRE DE STERILISATION

Publication  
**EP 1827650 A4 20130220 (EN)**

Application  
**EP 05810578 A 20051130**

Priority

- AU 2005001803 W 20051130
- AU 2004233510 A 20041130
- AU 2005905191 A 20050920

Abstract (en)  
[origin: WO2006058370A1] An airborne-bacteria filter arrangement is used with an apparatus that has an internal airflow. The airflow passes through a fibrous filter arrangement that has, on its fibres, a highly toxic bacteria-killing substance which entraps and kills bacteria in the airflow. A charcoal-infused filter removes the toxic substance from the airflow, and further filters can effuse beneficial substances to the airflow. The filter arrangement is sealed from germ intrusion. The filter arrangement is used in hand dryers and other apparatus such that the airflow can be sterilised to the extent of achieving 100% bacteria removal.

IPC 8 full level  
**B01D 46/00** (2006.01); **A01M 29/00** (2011.01); **A01M 29/12** (2011.01); **A45D 20/00** (2006.01); **A47K 10/48** (2006.01); **A47L 9/10** (2006.01); **A61L 9/00** (2006.01); **D06F 58/00** (2006.01); **F24F 3/16** (2006.01); **H01H 9/22** (2006.01)

CPC (source: EP US)  
**A45D 20/12** (2013.01 - EP US); **A47K 10/48** (2013.01 - EP US); **A47L 7/04** (2013.01 - EP US); **A47L 9/122** (2013.01 - EP US); **A61L 9/04** (2013.01 - EP US); **A61L 9/16** (2013.01 - EP US); **B01D 46/0005** (2013.01 - EP US); **B01D 46/0028** (2013.01 - EP US); **B01D 46/10** (2013.01 - EP US); **D06F 58/20** (2013.01 - EP US); **B01D 2257/91** (2013.01 - EP US); **B01D 2267/40** (2013.01 - EP US)

Citation (search report)

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- [Y] EP 1160811 A2 20011205 - OMRON TATEISI ELECTRONICS CO [JP]
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006058370 A1 20060608**; AU 2005312333 A1 20060608; EP 1827650 A1 20070905; EP 1827650 A4 20130220; JP 2008521520 A 20080626; JP 2011196682 A 20111006; SG 158095 A1 20100129; TW 200626100 A 20060801; US 2008253754 A1 20081016

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**AU 2005001803 W 20051130**; AU 2005312333 A 20051130; EP 05810578 A 20051130; JP 2007543652 A 20051130; JP 2011126338 A 20110606; SG 2009079369 A 20051130; TW 94142087 A 20051130; US 72036905 A 20051130