

Title (en)

FILTER MEDIA INCLUDING ADHESIVES AND/OR OLEOPHOBIC PROPERTIES

Title (de)

FILTERMEDIEN MIT KLEBSTOFFEN UND/ODER OLEOPHOBE EIGENSCHAFTEN

Title (fr)

MILIEUX FILTRANTS COMPRENANT DES ADHÉSIFS ET/OU DES PROPRIÉTÉS OLÉOPHOBES

Publication

EP 3600601 A4 20210113 (EN)

Application

EP 18776179 A 20180328

Priority

- US 201715471284 A 20170328
- US 2018024820 W 20180328

Abstract (en)

[origin: WO2018183481A1] Articles and methods involving filter media are generally provided. In certain embodiments, the filter media includes at least a first layer, a second layer, and an adhesive resin positioned between the first layer and the second layer. In some embodiments, the first layer may be a pre-filter layer or a support layer. The second layer may, for example, comprise fibers formed by a solution spinning process and/or may comprise fine fibers. In some embodiments, the adhesive resin may be present in a relatively low amount and/or may have a low glass transition temperature. The filter media as a whole may have one or more advantageous properties, including one or more of a high stiffness, a high bond strength between the first layer and the second layer, a high gamma, and/or a low increase in air resistance after being subjected to an IPA vapor discharge. The filter media may be, for example, a HEPA filter and/or an ULPA filter.

IPC 8 full level

B01D 39/16 (2006.01); **B01D 39/18** (2006.01); **B01D 65/00** (2006.01)

CPC (source: CN EP)

B01D 39/14 (2013.01 - CN); **B01D 39/1623** (2013.01 - CN EP); **B01D 39/163** (2013.01 - CN); **B01D 39/1692** (2013.01 - CN EP); **B01D 39/18** (2013.01 - CN EP); **B01D 46/521** (2013.01 - CN); **B01D 2239/0421** (2013.01 - CN EP); **B01D 2239/0435** (2013.01 - CN); **B01D 2239/0622** (2013.01 - CN EP); **B01D 2239/0627** (2013.01 - CN EP); **B01D 2239/0631** (2013.01 - CN); **B01D 2239/0681** (2013.01 - CN EP); **B01D 2239/083** (2013.01 - CN); **B01D 2239/1216** (2013.01 - CN EP); **B01D 2239/1233** (2013.01 - CN EP); **B01D 2239/1275** (2013.01 - CN); **B01D 2275/105** (2013.01 - CN); **B01D 2279/51** (2013.01 - CN); **B01D 2279/55** (2013.01 - CN); **B01D 2279/60** (2013.01 - CN)

Citation (search report)

[I] US 2008017038 A1 20080124 - WU TIEN T [US]

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

DOCDB simple family (publication)

WO 2018183481 A1 20181004; CN 110621386 A 20191227; CN 110621386 B 20220125; CN 114470971 A 20220513; CN 114470971 B 20240308; CN 117982986 A 20240507; EP 3600601 A1 20200205; EP 3600601 A4 20210113

DOCDB simple family (application)

US 2018024820 W 20180328; CN 201880030782 A 20180328; CN 202210007358 A 20180328; CN 202410179825 A 20180328; EP 18776179 A 20180328