

Title (en)  
FILTER MEDIA INCLUDING FLAME RETARDANT FIBERS

Title (de)  
FILTERMEDIEN MIT FLAMMENHEMMENDEN FASERN

Title (fr)  
SUPPORT FILTRANT COMPRENANT DES FIBRES IGNIFUGES

Publication  
**EP 3519076 A4 20200226 (EN)**

Application  
**EP 17857510 A 20170929**

Priority  
• US 201615283014 A 20160930  
• US 2017054340 W 20170929

Abstract (en)  
[origin: WO2018064500A1] Filter media including a filtration layer comprising fibers (e.g., synthetic fibers) comprising a flame retardant and related components, systems, and methods associated herewith are provided. In some embodiments, a filtration layer may include a nonwoven web (e.g., wet-laid nonwoven web) comprising fibers including a certain flame retardant that has a relatively low concentration of or is substantially free of certain undesirable and/or toxic components (e.g., halogens). In certain embodiments, the nonwoven web may also comprise a blend of fibers. For instance, in some embodiments, the nonwoven web may also comprise a blend of coarse and fine diameter synthetic fibers that impart beneficial performance properties to the filtration layer. In some embodiments, the filtration layer may be designed to have a desirable flame retardancy (e.g., FI rating, KI rating) and performance properties without compromising certain mechanical properties (e.g., pleatability of the media) and/or environmental attributes (e.g., relatively low toxicity). Filter media described herein may be particularly well-suited for applications that involve filtering air, though the media may also be used in other applications.

IPC 8 full level  
**B01D 46/10** (2006.01); **B01D 39/16** (2006.01); **B32B 5/06** (2006.01); **C23C 14/06** (2006.01); **D01F 1/07** (2006.01); **D03D 15/12** (2006.01); **D04H 1/64** (2012.01)

CPC (source: EP)  
**B01D 39/1623** (2013.01); **B32B 5/022** (2013.01); **B32B 5/028** (2013.01); **B32B 5/06** (2013.01); **B32B 5/26** (2013.01); **B32B 7/04** (2013.01); **B32B 7/12** (2013.01); **B32B 21/10** (2013.01); **B32B 23/10** (2013.01); **D04H 1/728** (2013.01); **B01D 2239/0457** (2013.01); **B32B 2250/02** (2013.01); **B32B 2250/03** (2013.01); **B32B 2250/04** (2013.01); **B32B 2250/05** (2013.01); **B32B 2250/20** (2013.01); **B32B 2260/021** (2013.01); **B32B 2260/046** (2013.01); **B32B 2262/02** (2013.01); **B32B 2262/0223** (2013.01); **B32B 2262/0238** (2013.01); **B32B 2262/0246** (2013.01); **B32B 2262/0253** (2013.01); **B32B 2262/0261** (2013.01); **B32B 2262/0269** (2013.01); **B32B 2262/0276** (2013.01); **B32B 2262/0284** (2013.01); **B32B 2262/04** (2013.01); **B32B 2262/062** (2013.01); **B32B 2262/067** (2013.01); **B32B 2262/101** (2013.01); **B32B 2262/14** (2013.01); **B32B 2307/3065** (2013.01); **B32B 2307/50** (2013.01); **B32B 2307/54** (2013.01); **B32B 2307/718** (2013.01); **B32B 2307/724** (2013.01); **B32B 2307/732** (2013.01); **B32B 2553/00** (2013.01); **D01F 1/07** (2013.01); **D01F 6/62** (2013.01); **D01F 6/84** (2013.01)

Citation (search report)  
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• [X] JP 2006136809 A 20060601 - TORAY INDUSTRIES, et al  
• See references of WO 2018064500A1

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 2018064500 A1 20180405**; CN 109890480 A 20190614; EP 3519076 A1 20190807; EP 3519076 A4 20200226

DOCDB simple family (application)  
**US 2017054340 W 20170929**; CN 201780060186 A 20170929; EP 17857510 A 20170929