

Title (en)
HVAC HOME AIR FILTER

Title (de)
LUFTFILTER FÜR HLK-HEIMSYSTEM

Title (fr)
FILTRE À AIR DOMESTIQUE (HVAC)

Publication
EP 3481533 A4 20200325 (EN)

Application
EP 17828249 A 20170710

Priority
• US 201615207025 A 20160711
• US 2017041389 W 20170710

Abstract (en)
[origin: WO2018013487A1] An apparatus and a method are provided for a heating, ventilation, and air conditioning (HVAC) home air filter to remove airborne molecular contaminants and volatile organic compounds (VOCs) from air within residential spaces. The HVAC home air filter comprises a supportive frame having a shape and size suitable to orient the HVAC home air filter within a residential HVAC system. A filter medium is retained within the supportive frame to remove the airborne molecular contaminants and VOCs from air flowing through the residential HVAC system. The filter medium comprises a combination of media layers configured to exhibit a relatively high filtration efficiency and a low air pressure drop across the filter medium. The supportive frame comprises a plurality of elongate sections and corner sections disposed along perimeter edges of the filter medium to support the filter medium within the residential HVAC system so as direct air through the filter medium.

IPC 8 full level
B01D 46/52 (2006.01); **B01D 46/00** (2006.01); **B01D 46/10** (2006.01); **B01D 53/72** (2006.01); **B01D 53/82** (2006.01); **F24F 8/108** (2021.01); **F24F 8/90** (2021.01)

CPC (source: EP KR US)
B01D 46/0002 (2013.01 - KR); **B01D 46/0032** (2013.01 - KR); **B01D 46/521** (2013.01 - KR); **B01D 53/72** (2013.01 - EP KR); **B01D 53/82** (2013.01 - EP KR); **F24F 8/108** (2021.01 - EP KR US); **F24F 8/194** (2021.01 - EP KR); **F24F 8/90** (2021.01 - EP KR US); **B01D 46/0032** (2013.01 - EP); **B01D 46/521** (2013.01 - EP); **B01D 2239/0435** (2013.01 - EP KR); **B01D 2239/0442** (2013.01 - EP KR); **B01D 2239/045** (2013.01 - EP KR); **B01D 2257/708** (2013.01 - EP KR); **B01D 2257/91** (2013.01 - EP KR); **B01D 2258/06** (2013.01 - EP KR); **B01D 2259/4508** (2013.01 - EP KR); **Y02A 50/20** (2018.01 - KR)

Citation (search report)
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• [A] US 2004159239 A1 20040819 - NAGEM DANIEL A [US]
• [A] US 2002100264 A1 20020801 - RIVERA SAMUEL [US], et al
• See also references of WO 2018013487A1

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 2018013487 A1 20180118; BR 112019000573 A2 20190424; CA 3030560 A1 20180118; CN 110769916 A 20200207; CN 110769916 B 20220923; EP 3481533 A1 20190515; EP 3481533 A4 20200325; KR 102438640 B1 20220831; KR 102646727 B1 20240314; KR 20200019839 A 20200225; KR 20220123562 A 20220907

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