

Title (en)
CABIN AIR FILTER WITH POLARISATION

Title (de)
KABINENLUFTFILTER MIT POLARISIERUNG

Title (fr)
FILTRE D'AIR DE CABINE AVEC POLARISATION

Publication
EP 4230299 A1 20230823 (EN)

Application
EP 22157505 A 20220218

Priority
EP 22157505 A 20220218

Abstract (en)
A gas filter 1 comprising a filter medium 20, for filtering a gas flow from an upstream facing side 3 through the filter medium 20 to a downstream facing side 4, wherein the filter medium 20 comprises a capacitor with a first electrode 21, a second electrode 22 and a dielectric medium 23, wherein the gas filter 1 further comprises a first electrical contact T1 and a second electrical contact T2. The first electrical contact T1 is electrically connected via a first resistance R1 to a branching point B and the second electrical contact T2 is electrically connected via a second resistance R2 to said branching point B. Further, the first electrode 21 is electrically connected to said branching point B and the second electrode 22 is electrically connected to the second electrical contact T2.

IPC 8 full level
B03C 3/155 (2006.01); **B03C 3/09** (2006.01); **B03C 3/47** (2006.01); **B03C 3/68** (2006.01)

CPC (source: EP)
B03C 3/09 (2013.01); **B03C 3/155** (2013.01); **B03C 3/47** (2013.01); **B03C 3/68** (2013.01); **B03C 2201/32** (2013.01)

Citation (applicant)
• US 2007199450 A1 20070830 - WISER FORWOOD C [US], et al
• DE 102021120127 A 20210803
• FRANK JORDAN: "PhD-Thesis", 2001, UNIVERSITY DUISBURG, article "Untersuchungen zum Partikelab-scheideverhalten submikroner Partikel in Faserfiltern im elektrischen Feld"

Citation (search report)
• [XY] US 2006137527 A1 20060629 - JOANNOU CONSTANTINOS J [CA]
• [XY] US 2008190772 A1 20080814 - GREIST HENRY [US], et al
• [Y] JP H0691199 A 19940405 - YASKAWA ELECTRIC CORP, et al
• [A] JP 2006234246 A 20060907 - SHARP KK

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4230299 A1 20230823

DOCDB simple family (application)
EP 22157505 A 20220218