

Title (en)  
FILTER SCREEN CLEANING MODULE AND AIR TREATMENT DEVICE

Title (de)  
FILTERSIEBREINIGUNGSMODUL UND LUFTBEHANDLUNGSVORRICHTUNG

Title (fr)  
MODULE DE NETTOYAGE DE TAMIS ET DISPOSITIF DE TRAITEMENT D'AIR

Publication  
**EP 3686499 A4 20210317 (EN)**

Application  
**EP 19798513 A 20191025**

Priority  
• CN 201822007298 U 20181130  
• CN 201822009167 U 20181130  
• CN 2019113329 W 20191025

Abstract (en)  
[origin: EP3686499A1] A filter screen cleaning module (100) and an air processing device (1000), the filter screen cleaning module (100) includes: a cleaning box (1), a roller assembly (6) and a roller drive gear (203) on the cleaning box. The cleaning box has a cleaning cavity (101). The roller assembly is rollably connected between two opposite side walls of the cleaning box, the roller assembly including: an inner shaft (63) of the roller and an outer cylinder (62) of the roller, the outer cylinder (62) of the roller configured for contacting the filter (400) to drive the filter to move. The roller inner shaft is fitted over the roller outer cylinder, and a rotation limiting structure (64) is disposed between the roller outer cylinder and the roller inner shaft. The roller drive gear is connected with the roller assembly.

IPC 8 full level  
**F24F 1/0073** (2019.01); **F24F 8/90** (2021.01)

CPC (source: EP)  
**F24F 1/0073** (2019.01); **F24F 8/90** (2021.01)

Citation (search report)  
• [XYI] CN 106839123 A 20170613 - WUHAN REFRIGERATION EQUIPMENT CO LTD OF MIDEA GROUP, et al  
• [X] CN 206730731 U 20171212 - WUHAN REFRIGERATION EQUIPMENT CO LTD OF MIDEA GROUP, et al  
• [Y] CN 105953325 A 20160921 - GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD, et al  
• [A] CN 105937789 A 20160914 - GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD, et al  
• [A] JP 2012154589 A 20120816 - MITSUBISHI HEAVY IND LTD  
• See references of WO 2020108190A1

Cited by  
CN113422937A

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

DOCDB simple family (publication)  
**EP 3686499 A1 20200729; EP 3686499 A4 20210317**; JP 2021511473 A 20210506; JP 6992092 B2 20220113; WO 2020108190 A1 20200604

DOCDB simple family (application)  
**EP 19798513 A 20191025**; CN 2019113329 W 20191025; JP 2019563124 A 20191025