

Title (en)  
FILTER CLEANING DEVICE

Title (de)  
FILTERREINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE NETTOYAGE DE FILTRE

Publication  
**EP 3511640 A4 20190911 (EN)**

Application  
**EP 17848312 A 20170118**

Priority  
• JP 2016177383 A 20160912  
• JP 2017001506 W 20170118

Abstract (en)  
[origin: EP3511640A1] A filter cleaning device (20) cleans off dust (D) adhering to a filter (21). The filter cleaning device (20) includes a front surface brush (23) (dust removal member) that removes dirt and dust from a surface of the filter (21), a filter drive gear (24) (filter drive section) that moves the filter (21) along the front surface brush (23), and a rear surface roller (41) (rotating member) disposed opposite the front surface brush (23) with the filter (21) in between, and that rotates with the movement of the filter (21).

IPC 8 full level  
**F24F 8/90** (2021.01); **F24F 11/30** (2018.01); **F24F 8/10** (2021.01)

CPC (source: EP US)  
**F24F 8/10** (2021.01 - EP US); **F24F 8/90** (2021.01 - EP US)

Citation (search report)  
• [X] JP 2012189251 A 20121004 - SHARP KK  
• [X] EP 2217863 A1 20100818 - LG ELECTRONICS INC [KR]  
• [X] EP 2392870 A1 20111207 - DAIKIN IND LTD [JP]  
• [X] JP H07275626 A 19951024 - ISHII YOSHIBUMI, et al  
• See references of WO 2018047365A1

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 3511640 A1 20190717; EP 3511640 A4 20190911**; CN 109690202 A 20190426; JP WO2018047365 A1 20190624;  
WO 2018047365 A1 20180315

DOCDB simple family (application)  
**EP 17848312 A 20170118**; CN 201780013136 A 20170118; JP 2017001506 W 20170118; JP 2018538003 A 20170118