

Title (en)  
FILTER CLEANING DEVICE FOR AN AIR CONDITIONER AND AIR CONDITIONER HAVING SUCH FILTER CLEANING DEVICE

Title (de)  
FILTERREINIGUNGSVORRICHTUNG FÜR EINE KLIMAAANLAGE UND KLIMAAANLAGE MIT SOLCH EINER  
FILTERREINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE NETTOYAGE DE FILTRE POUR UN CLIMATISEUR ET CLIMATISEUR ÉQUIPÉ DUDIT DISPOSITIF DE NETTOYAGE DE  
FILTRE

Publication  
**EP 3276277 A1 20180131 (EN)**

Application  
**EP 17155600 A 20170210**

Priority  
EP 16181787 A 20160728

Abstract (en)  
The present disclosure concerns a filter cleaning device for an air conditioner (1), particularly a duct -type air conditioner, the filter cleaning device comprising a filter (12) to be passed through by an air flow and having a filter surface (13), a brush (17) contactable with the filter surface (13) for removing particulate matter from the filter surface, wherein the brush has a cylindrical shape, a motor (46) configured to rotate the brush in opposite directions; a first comb shaped member (48) engaged with the brush and a second comb shaped member (49) engaged with the brush, wherein the first and second comb shaped members each have a length direction parallel to the axis of rotation of the brush and a width direction, wherein first comb shaped member and the second comb shaped member are inclined away from each other in a cross-sectional view perpendicular to an axis of rotation (19) of the brush. Further the present disclosure contains an air conditioner having such filter cleaning device.

IPC 8 full level  
**F24F 13/28** (2006.01); **F24F 3/16** (2006.01)

CPC (source: EP US)  
**F24F 8/90** (2021.01 - EP); **F24F 13/28** (2013.01 - EP US); **F24F 8/90** (2021.01 - US)

Citation (applicant)  
• KR 20030083185 A 20031030 - LG ELECTRONICS INC [KR]  
• KR 20040080810 A 20040920 - LG ELECTRONICS INC  
• WO 2007040276 A1 20070412 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al  
• WO 2016009351 A1 20160121 - AIRVAC LTD [GB]  
• EP 2119979 A1 20091118 - DAIKIN IND LTD [JP]  
• JP H0632926 U 19940428

Citation (search report)  
• [XAYI] JP 2013053846 A 20130321 - MITSUBISHI HEAVY IND LTD  
• [Y] WO 2010029849 A1 20100318 - DAIKIN IND LTD [JP], et al  
• [XI] EP 1741992 A2 20070110 - MITSUBISHI HEAVY IND LTD [JP]

Cited by  
CN112923454A

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 3276277 A1 20180131; EP 3276277 B1 20200408**; AU 2017303171 A1 20190124; AU 2017303171 B2 20191017;  
CN 109790999 A 20190521; CN 109790999 B 20201201; US 2019178527 A1 20190613; WO 2018021305 A1 20180201

DOCDB simple family (application)  
**EP 17155600 A 20170210**; AU 2017303171 A 20170725; CN 201780046113 A 20170725; JP 2017026853 W 20170725;  
US 201716321121 A 20170725