

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 3690333 A1 20200805 (EN)**

Application  
**EP 20153814 A 20200127**

Priority  
• KR 20190013061 A 20190131  
• KR 20190013983 A 20190201

Abstract (en)  
Provided is an air conditioner. The air conditioner includes a prefilter (340) made of a flexible material, the prefilter (340) being disposed to face an air suction hole (312) through which air is suctioned, a roller (372) configured to support one side of the prefilter (340) in a longitudinal direction, the roller (372) being configured to allow the prefilter (340) to move in a left-right direction, a roller rotation mechanism configured to allow the roller (372) to rotate, and a brush unit (380) disposed to contact the prefilter (340) when the roller (372) rotates, the brush unit (380) being spaced apart from the roller rotation mechanism.

IPC 8 full level  
**F24F 8/90** (2021.01)

CPC (source: CN EP US)  
**F24F 1/0073** (2019.02 - CN); **F24F 1/0076** (2019.02 - CN); **F24F 8/10** (2021.01 - EP); **F24F 8/108** (2021.01 - CN); **F24F 8/192** (2021.01 - CN); **F24F 8/90** (2021.01 - CN EP US); **F24F 13/28** (2013.01 - CN); **F24F 2221/22** (2013.01 - CN)

Citation (applicant)  
• KR 20090044786 A 20090507 - LG ELECTRONICS INC [KR]  
• JP 2005300154 A 20051027 - FUJITSU GENERAL LTD

Citation (search report)  
• [X] JP 2010088960 A 20100422 - MITSUBISHI ELECTRIC CORP  
• [X] EP 2251616 A1 20101117 - DAIKIN IND LTD [JP]  
• [X] WO 2012096120 A1 20120719 - SHARP KK [JP], et al  
• [X] EP 3267124 A1 20180110 - MITSUBISHI ELECTRIC CORP [JP]  
• [X] WO 2012121088 A1 20120913 - SHARP KK [JP], et al  
• [X] EP 1980801 A1 20081015 - TOSHIBA CARRIER CORP [JP]

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 3690333 A1 20200805**; **EP 3690333 B1 20230405**; CN 111503745 A 20200807; CN 113218005 A 20210806; CN 117053286 A 20231114; EP 4227589 A1 20230816; EP 4227589 B1 20241023; ES 2947472 T3 20230809

DOCDB simple family (application)  
**EP 20153814 A 20200127**; CN 202010075550 A 20200122; CN 202110534181 A 20200122; CN 202311010473 A 20200122; EP 23157436 A 20200127; ES 20153814 T 20200127