

Title (en)
Ventilating device and outdoor unit having the same

Title (de)
Belüftungsvorrichtung und Freiluftanlage damit

Title (fr)
Dispositif de ventilation et unité d'extérieur doté de celui-ci

Publication
EP 2354685 B1 20150729 (EN)

Application
EP 11151528 A 20110120

Priority
KR 20100005537 A 20100121

Abstract (en)
[origin: US2011174011A1] A ventilating device and an outdoor unit including the same are disclosed. More particularly, the present invention relates to a ventilating device including a counter-rotating fan having improved wind ventilation efficiency as well as minimized noise generated during the fan operation.

IPC 8 full level
F24F 1/38 (2011.01); **F04D 19/00** (2006.01); **F04D 19/02** (2006.01); **F24F 1/40** (2011.01); **F24F 1/54** (2011.01); **F24F 13/24** (2006.01)

CPC (source: EP US)
F04D 19/007 (2013.01 - EP US); **F04D 19/024** (2013.01 - EP US); **F24F 1/38** (2013.01 - EP US); **F24F 1/40** (2013.01 - EP US);
F24F 1/54 (2013.01 - EP US); **F24F 13/24** (2013.01 - EP US)

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

DOCDB simple family (publication)
US 2011174011 A1 20110721; CN 102135298 A 20110727; CN 102135298 B 20140226; EP 2354685 A2 20110810; EP 2354685 A3 20121205;
EP 2354685 B1 20150729; ES 2549584 T3 20151029; KR 20110085646 A 20110727

DOCDB simple family (application)
US 201113010494 A 20110120; CN 201110027023 A 20110121; EP 11151528 A 20110120; ES 11151528 T 20110120;
KR 20100005537 A 20100121