

Title (en)

Propeller Fan and Heat Source Unit including same

Title (de)

Propellergebläse und Wärmequelleinheit damit

Title (fr)

Ventilateur à hélice et unité de source de chaleur comprenant ce dernier

Publication

**EP 2607714 A2 20130626 (EN)**

Application

**EP 12198822 A 20121221**

Priority

JP 2011280216 A 20111221

Abstract (en)

A propeller fan (1) for a heat source unit (11) is provided with a plurality of blades (4, 5, 6) fixed to a hub (3) on a rotation axis (2) of the fan (1), in which each of the blades (4, 5, 6) has a recess portion (4b, 5b, 6b) formed in a blade rear edge section (4a, 5a, 6a), in fan rotating direction, as air blow-out portion during rotation of the fan (1), and the recess portions (4b, 5b, 6b) of the respective blades (4, 5, 6) are recessed in a direction opposite to air blow-out direction and are different in sizes thereof.

IPC 8 full level

**F04D 29/38** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)

**F04D 29/327** (2013.01); **F04D 29/384** (2013.01); **F04D 29/666** (2013.01); **F05D 2240/304** (2013.01)

Citation (applicant)

JP 2005140081 A 20050602 - TOSHIBA CARRIER KK

Cited by

CN106766046A; CN107023513A; CN104343730A; EP2835538A3; EP3343045A4; US2014086754A1; US9556881B2; US9605686B2; US11041506B2; CN106766045A; CN110678659A; EP3633208A4

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 2607714 A2 20130626**; **EP 2607714 A3 20140813**; **EP 2607714 B1 20200708**; CN 203098387 U 20130731; DK 2607714 T3 20200810; JP 2013130125 A 20130704

DOCDB simple family (application)

**EP 12198822 A 20121221**; CN 201220711894 U 20121220; DK 12198822 T 20121221; JP 2011280216 A 20111221