

Title (en)
CROSS-FLOW FAN AND AIR CONDITIONER

Title (de)
QUERSTROMLÜFTER UND KLIMAAANLAGE

Title (fr)
VENTILATEUR À FLUX TRANSVERSAL ET CLIMATISEUR

Publication
EP 2549114 B1 20180829 (EN)

Application
EP 10847797 A 20100318

Priority
JP 2010001945 W 20100318

Abstract (en)
[origin: EP2549114A1] Provided are impeller units 8d having disk-shaped support plates 8b, whose center of rotation is located in the center thereof, and a plurality of blades 8c extending in a rotation-axis direction and arranged along the outer peripheries of the support plates 8b, the support plates 8b supporting opposite ends of the blades; an impeller 8a formed of the multiple impeller units 8d that are fixed to each other in the rotation-axis direction; and a plurality of grooves 14 having a depressed shape that extend in the rotation-axis direction and are provided in a blade suction surface 13a serving as a back side in a rotational direction of each blade 8c. The grooves 14 are separated from each other by a predetermined distance such that a flat section M is provided between neighboring grooves 14.

IPC 8 full level
F04D 17/04 (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP)
F04D 17/04 (2013.01); **F04D 29/283** (2013.01); **F04D 29/30** (2013.01); **F04D 29/681** (2013.01); **F05D 2240/306** (2013.01); **F05D 2250/294** (2013.01)

Cited by
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DOCDB simple family (publication)
EP 2549114 A1 20130123; EP 2549114 A4 20170913; EP 2549114 B1 20180829; AU 2010348684 A1 20120913; AU 2010348684 B2 20131107; CN 102812253 A 20121205; CN 102812253 B 20160803; ES 2690196 T3 20181119; WO 2011114375 A1 20110922

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