

Title (en)

CROSS-FLOW FAN

Title (de)

QUERSTROMGEBLÄSE

Title (fr)

VENTILATEUR À FLUX TRANSVERSAL

Publication

**EP 2894345 A1 20150715 (EN)**

Application

**EP 13836035 A 20130829**

Priority

- JP 2012194255 A 20120904
- JP 2012194256 A 20120904
- JP 2012216122 A 20120928
- JP 2013073145 W 20130829

Abstract (en)

To reduce flow path loss caused by an intermediate plate or the like without reducing the strength of a cross-flow fan. Plural blades (40) extend in a lengthwise direction from a disc-shaped or circular annular support plate. A ring portion (61) of an auxiliary ring (60) is positioned on a lengthwise direction intermediate section of the plural blades (40) and is disposed on the outside of outer ends (40a) of the plural blades (40). Plural connection portions (62) of the auxiliary ring (60) extend from the ring portion (61) as far as spaces between adjacent blades of the plural blades (40) and are joined to the blades (40) in the spaces between adjacent blades. Plural notch portions (40g) are formed in the outer ends (40a) of the blades (40).

IPC 8 full level

**F04D 17/04** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01); **F04D 29/66** (2006.01)

CPC (source: CN EP)

**F04D 17/04** (2013.01 - CN EP); **F04D 29/282** (2013.01 - CN); **F04D 29/283** (2013.01 - EP); **F04D 29/30** (2013.01 - EP); **F04D 29/663** (2013.01 - EP); **F04D 29/665** (2013.01 - EP); **F05D 2240/304** (2013.01 - EP)

Cited by

US2015192319A1; US10473339B2

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 2894345 A1 20150715**; **EP 2894345 A4 20150812**; CN 104603466 A 20150506; WO 2014038467 A1 20140313

DOCDB simple family (application)

**EP 13836035 A 20130829**; CN 201380046041 A 20130829; JP 2013073145 W 20130829