

Title (en)  
Impeller and fan

Title (de)  
Flügelrad und Gebläse

Title (fr)  
Ventilateur et hélice

Publication  
**EP 2644898 A1 20131002 (EN)**

Application  
**EP 13159732 A 20130318**

Priority  
US 201261617875 P 20120330

Abstract (en)  
An impeller (11) applied to a fan (1) is disclosed. The impeller (11) includes a hub (111), a plurality of centrifugal blades (112) and a plurality of axial blades (113). One end of each of the centrifugal blades (112) is disposed around the circumference of the hub (111). The axial blades (113) are respectively connected to the other end of a part of the centrifugal blades (112). A fan (1) applying the impeller (11) is also disclosed.

IPC 8 full level  
**F04D 17/02** (2006.01); **F04D 25/06** (2006.01)

CPC (source: EP US)  
**F04D 17/025** (2013.01 - EP US); **F04D 19/002** (2013.01 - EP US); **F04D 25/06** (2013.01 - EP US)

Citation (search report)

- [X] WO 2010139030 A2 20101209 - DEVRIESE PETER [BE]
- [X] US 3650633 A 19720321 - BENOIT REMI A
- [X] CN 1445462 A 20031001 - UNIV SHANGHAI JIAOTONG [CN]
- [X] US 1738210 A 19291203 - SARGENT FREDERICK G
- [A] US 2006034694 A1 20060216 - LI NIEN-LUN [TW], et al

Cited by  
US11905973B2

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 2644898 A1 20131002**; CN 103362857 A 20131023; TW 201339432 A 20131001; US 2013259667 A1 20131003

DOCDB simple family (application)  
**EP 13159732 A 20130318**; CN 201310030042 A 20130125; TW 102103360 A 20130129; US 201313845761 A 20130318