

Title (en)  
Axial-flow fan

Title (de)  
Axiallüfter

Title (fr)  
Ventilateur à flux axial

Publication  
**EP 2597314 A3 20150318 (EN)**

Application  
**EP 12194027 A 20121123**

Priority  
JP 2011257545 A 20111125

Abstract (en)  
[origin: EP2597314A2] An axial-flow fan 100 includes an impeller 10 mounted on a rotating shaft 21 of a rotary drive device 20 and a venture casing 30 surrounding an outer periphery of the impeller 10 in a radial direction and including a suction port 41 and a discharge port 42 facing each other in an axial direction of the rotating shaft 21. An inner surface of the venture casing 30 includes a suction-side slant part 31 expending the suction port 41 outward in the radial direction of the impeller 10, a linear part 32 continuing from the suction-side slant part 31 and forming an axial flow of a fluid with the impeller 10, a discharge-side slant part 34 expanding the discharge port 42 outward in the radial direction of the impeller 10, and a curved part 33 connecting the linear part 32 and the discharge-side slant part 34.

IPC 8 full level  
**F04D 25/06** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP KR US)  
**F04D 25/0613** (2013.01 - EP US); **F04D 25/08** (2013.01 - KR); **F04D 29/325** (2013.01 - KR); **F04D 29/403** (2013.01 - KR); **F04D 29/526** (2013.01 - EP US); **F04D 29/541** (2013.01 - KR); **F04D 29/547** (2013.01 - US); **F04D 29/667** (2013.01 - KR); **F05D 2210/12** (2013.01 - KR); **F05D 2260/60** (2013.01 - KR); **Y10S 415/00** (2013.01 - KR); **Y10S 417/00** (2013.01 - KR)

Citation (search report)

- [X] US 4482302 A 19841113 - GRIGNON ROBERT [FR]
- [X] US 4895489 A 19900123 - KOHAMA YASUAKI [JP], et al
- [X] US 2011192186 A1 20110811 - KATO YASUAKI [JP], et al
- [X] US 2009226312 A1 20090910 - LIU WEN-BIN [TW], et al

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 2597314 A2 20130529; EP 2597314 A3 20150318**; CN 103133419 A 20130605; JP 2013113128 A 20130610; KR 20130058605 A 20130604; TW 201321613 A 20130601; US 2013136591 A1 20130530

DOCDB simple family (application)  
**EP 12194027 A 20121123**; CN 201210451972 A 20121113; JP 2011257545 A 20111125; KR 20120126270 A 20121108; TW 101139420 A 20121025; US 201213681596 A 20121120