

Title (en)
TURBOFAN AND AIR CONDITIONER

Title (de)
TURBOLÜFTER UND KLIMAAANLAGE

Title (fr)
TURBOVENTILATEUR ET CLIMATISEUR

Publication
EP 2264320 A1 20101222 (EN)

Application
EP 09731652 A 20090304

Priority
• JP 2009054060 W 20090304
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Abstract (en)
A turbofan 10 includes a main plate 2 having a boss 2a that is a fixed portion to which a rotational shaft of a motor is secured, a plurality of blades 4, and a side plate 3 forming an inlet air guide wall. A blade trailing edge 4e has at least two inflection points on which the blade trailing edge 4e on the side of the main plate 2 convexly curves in the rotational direction and the blade trailing edge 4e on the side of the side plate 3 concavely curves in the opposite rotational direction. Between a main plate side curved portion and a side plate side curved portion, the blade is formed such that the main plate 2 side is slanted in the rotational direction in relation to the side plate 3 side.

IPC 8 full level
F04D 29/28 (2006.01); **F24F 1/0038** (2019.01); **F04D 29/30** (2006.01); **F24F 13/06** (2006.01)

CPC (source: EP US)
F04D 29/281 (2013.01 - EP); **F04D 29/282** (2013.01 - EP); **F04D 29/30** (2013.01 - EP); **F24F 1/0022** (2013.01 - EP);
F24F 1/0038 (2019.01 - EP US); **F24F 1/0047** (2019.01 - EP); **F24F 2013/0616** (2013.01 - EP)

Cited by
CN103174673A; AU2013263811B2; CN103174672A; CN103185030A; EP3660405A4; US10697474B2; US11015610B2; US11608834B2

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
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CN 101960150 A 20110126; CN 101960150 B 20140402; ES 2686246 T3 20181017; JP 2013117233 A 20130613; JP 5283691 B2 20130904;
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