

Title (en)

Blower spiral volute with a discharge tongue that separates two axially offset discharge areas

Title (de)

Gebläse-Spiralgehäuse mit einer Abgriffslippe, die zwei axial versetzte Ausströmräume trennt

Title (fr)

Volute hélicoïdale de soufflante avec languette de décharge séparant deux zones de décharge décalées axialement

Publication

EP 2222960 B1 20150318 (DE)

Application

EP 08852563 A 20081121

Priority

- DE 2008001925 W 20081121
- DE 102007055507 A 20071121

Abstract (en)

[origin: WO2009065394A1] The invention relates to a blower arrangement for turbo machines consisting of at least one, preferably, spiral-shaped housing (20) and at least one impeller (10) that is rotationally mounted about a rotational axis (90) and that is accommodated in the housing (20). Said housing (20) comprises at least one first inflow chamber (60, 280) and at least one second outflow chamber (50, 290). Advantageously, the inflow chamber (60, 280) and the second outflow chamber (50, 290) are separated from each other by means of at least one housing wall section (760a - 760c). The outer edge of the at least one housing wall section (760a - 760c), that points to the impeller (10) forms a grip lip (40). The housing wall section (760a - 760c) extends in the direction of the inflow chambers (50, 290) and comprises at least one radial component (17, 310). Alternatively or additionally the first inflow chamber (60, 280) and the second outflow chamber (50, 290) can be offset in an axially manner at least in parts in relation to the rotational axis (90) and partially overlap at least in the region of the impeller (10).

IPC 8 full level

F04D 17/16 (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)

F04D 17/165 (2013.01); **F04D 29/162** (2013.01); **F04D 29/4206** (2013.01); **F04D 29/422** (2013.01); **F04D 29/4253** (2013.01)

Cited by

DE102016010216A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009065394 A1 20090528; DE 102007055507 A1 20090604; EP 2222960 A1 20100901; EP 2222960 B1 20150318

DOCDB simple family (application)

DE 2008001925 W 20081121; DE 102007055507 A 20071121; EP 08852563 A 20081121