Title (en)

Impeller for axially conveying fluids, particularly for refrigeration systems

Title (de)

Laufrad zur axialen Förderung von Flüssigkeiten, insbesondere für Kälteanlagen

Title (fr)

Roue pour transport axial des fluides, en particulier pour systèmes de réfrigération

Publication

EP 2642130 B1 20190417 (EN)

Application

EP 13160281 A 20130321

Priority

IT MI20120451 A 20120322

Abstract (en)

[origin: EP2642130A1] An axial impeller (1) for conveying fluids comprises a hub (3) and a plurality of blades (2) and, when seen in a projection on a plane normal to a rotation axis (R) of the impeller: - a leading edge (8) of the blades is substantially rectilinear and extends in a direction radial to the rotation axis (R), - an apical edge (7) of the blades is shaped like an arc of circle concentric to the rotation axis (R), - a trailing edge (9) of the blades has a curved and concave shape with a wrap angle (28) that increases from the intermediate radius (25) up to close to the outer radius (13).

IPC 8 full level

F04D 29/38 (2006.01)

CPC (source: EP)

F04D 29/384 (2013.01)

Citation (examination)

WO 2011030748 A1 20110317 - SHARP KK [JP], et al & EP 2476912 A1 20120718 - SHARP KK [JP]

Cited by

CN105473853A

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

DOCDB simple family (publication)

EP 2642130 A1 20130925; **EP 2642130 B1 20190417**; IT MI20120451 A1 20130923

DOCDB simple family (application)

EP 13160281 A 20130321; IT MI20120451 A 20120322