

Title (en)  
Impeller for axially conveying fluids, particularly for refrigeration systems

Title (de)  
Lauftrad 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 A1 20130925 (EN)**

Application  
**EP 13160281 A 20130321**

Priority  
IT MI20120451 A 20120322

Abstract (en)  
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 (search report)

- [X] EP 0259061 A2 19880309 - SEIKO ELECTRONIC COMPONENTS [JP]
- [A] GB 401625 A 19331116 - BRITISH THOMSON HOUSTON CO LTD
- [A] FR 1399313 A 19650514 - ROTRON MFG COMPANY
- [A] US 3334807 A 19670808 - MCMAHAN KENTON D

Cited by  
CN115111194A; CN113847275A; CN113898607A; CN105473853A; CN106903875A; WO2024001739A1

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)  
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