

Title (en)
RADIAL COMPRESSOR IMPELLER COMPRISING SHROUD BAND AND AERODYNAMIC BEARING BETWEEN SHROUD BAND AND HOUSING

Title (de)
RADIALVERDICHTERLAUFRAD MIT DECKBAND UND AERODYNAMISCHEM LAGER ZWISCHEN DECKBAND UND GEHÄUSE

Title (fr)
ROTOR DE COMPRESSEUR RADIAL MUNI D'UN BANDAGE ET D'UN PALIER AÉRODYNAMIQUE ENTRE LE BANDAGE ET LE CARTER

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Application
EP 14731976 A 20140624

Priority
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Abstract (en)
[origin: WO2015028169A1] The invention relates to a compressor for a heat pump cycle and/or refrigeration system cycle, said compressor having a housing and a rotor that is rotatably mounted about an axis of rotation. The housing is at least partly arranged on the circumference of the rotor and the rotor comprises at least one hub and at least one vane arranged radially on the exterior of the hub. The vane is designed to convey a principal fluid stream and the rotor comprises a shroud band arranged radially on the exterior of the vane, said shroud band being at a radial distance from the housing. A bearing structure is provided radially on the exterior of the shroud band, said structure being designed to create a bearing fluid stream between the shroud band and the housing in order to form a fluid dynamic bearing for supporting the rotor in the housing.

IPC 8 full level
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Citation (search report)
See references of WO 2015028169A1

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