

Title (en)

Helico-axial pump, rotor for same, method for hydrodynamic bearing of a rotor of a helicon-axial pump and a hybrid pump with a rotor for a helico-axial pump

Title (de)

Helico-axiale Pumpe, Rotor für eine helico-axiale Pumpe sowie Verfahren zur Lagerung eines Rotors in einer helico-axialen Pumpe

Title (fr)

Pompe hélico-axiale, rotor pour une pompe hélico-axiale, palier hydrodynamique d'un rotor d'une pompe hélico-axiale et pompe hybride dotée d'un rotor pour une pompe hélico-axiale

Publication

EP 2386767 A3 20171101 (DE)

Application

EP 11161758 A 20110408

Priority

- EP 10162520 A 20100511
- EP 11161758 A 20110408

Abstract (en)

[origin: EP2386767A2] The helico-axial pump (1) comprises a partial rotor (21) and a rotor which is arranged in pump housing (6) around a longitudinal axis (A) in a rotating manner. The partial rotor comprises a compression level (K) having a helico-axial propeller (3) and a stator (4) for compression of multiphase mixture (M). A hydrodynamic stabilization bush (70) is arranged with a stabilization surface (700), where a stabilization gap (8) is formed for the stabilization surface. Independent claims are also included for the following: (1) a hybrid pump with a rotor; and (2) a method for hydrodynamic support of a rotor.

IPC 8 full level

F04D 29/047 (2006.01); **F04D 29/057** (2006.01); **F04D 29/66** (2006.01); **F04D 31/00** (2006.01)

CPC (source: EP US)

F04D 29/047 (2013.01 - EP US); **F04D 29/057** (2013.01 - EP US); **F04D 29/668** (2013.01 - EP US); **F04D 29/669** (2013.01 - EP US); **F04D 31/00** (2013.01 - EP US)

Citation (search report)

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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)

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