

Title (en)

ROTARY EXPANDING OR COMPRESSING MECHANISM PROVIDED IN FLUID CHANNEL WITH BLADES FOR TRAVERSING SHAFT

Title (de)

IN FLUIDKANAL VORGESEHENER DREHEXPANSION- ODER KOMPRESSIONSMECHANISMUS MIT SCHAUFELN FÜR DURCHQUERENDE WELLE

Title (fr)

MÉCANISME ROTATIF D'EXPANSION COMPRESSION PLACÉ DANS UNE CAVITÉ DE CIRCULATION DE FLUIDES ET MUNI DE PALES TRAVERSANT UN ARBRE.

Publication

**EP 2058519 A1 20090513 (EN)**

Application

**EP 07785195 A 20070730**

Priority

- CN 2007002280 W 20070730
- CN 200610109291 A 20060808

Abstract (en)

A rotary expanding or compressing mechanism provided in a fluid channel with blades for traversing a shaft comprises a supporting frame (1), an import (2) and export (3) of the fluid channel, a unround type curve barrel stator(4), a rotor (5) with concave grooves, blades (6) for traversing a shaft, a round end cap(7) and a member (8) for transmitting force. Wherein, a movable wearable sealing member (9,10,11) is provided in the matching position between the blade(6) and the stator (4). The mechanism is of good wearlessness and energy efficiency.

IPC 8 full level

**F04C 18/344** (2006.01); **F01C 1/324** (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP US)

**F01C 1/3441** (2013.01 - EP US); **F01C 1/3445** (2013.01 - EP US); **F01C 19/005** (2013.01 - EP US); **F01C 19/02** (2013.01 - EP US); **F01C 21/0881** (2013.01 - EP US); **F04C 18/3445** (2013.01 - EP US)

Citation (search report)

See references of WO 2008019575A1

Cited by

EP2639125A1; ITMI20091513A1; WO2012118456A1

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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