

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

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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