

Title (en)

Rotary machine core assembly and rotary machine

Title (de)

Kerngehäusebaugruppe einer Rotationsmaschine und Rotationsmaschine

Title (fr)

Assemblage de corps central de machine rotative et machine rotative

Publication

EP 2752552 A1 20140709 (EN)

Application

EP 14163230 A 20120525

Priority

- EP 14163230 A 20120525
- EP 12169534 A 20120525

Abstract (en)

A rotary machine core assembly (10) comprising a rotor housing (12), first and second endplates (14, 16) and mechanical fixing elements (18a, 18b). The housing defines a trochoid bore (20) and has a plurality of pairs of fixing holes (24a, 24b) provided therein. A first fixing hole (24a) of each pair extends from one side (12a) of the housing and a second fixing hole (24b, 42b) extends from an opposing side (12b) of the housing. Each fixing hole extends part-way into the rotor housing. The fixing holes extend towards each other and have a depth such that their ends are spaced from each other. The endplates (14, 16) are located adjacent respective sides of the housing. Each endplate has a plurality of through holes (30, 32) provided in it which are correspondingly located with the fixing holes on the rotor housing. Each mechanical fixing element is located through a respective through hole in an endplate and is received in the respective fixing hole in the rotor housing. Each mechanical fixing element (18a, 18b) extends part-way into the respective fixing hole.

IPC 8 full level

F01C 1/22 (2006.01); **F01C 21/10** (2006.01)

CPC (source: EP)

F01C 1/22 (2013.01); **F01C 21/106** (2013.01); **F01C 21/108** (2013.01); **F04C 2230/603** (2013.01); **F04C 2240/805** (2013.01)

Citation (search report)

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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)

EP 2666961 A1 20131127; **EP 2666961 B1 20170628**; EP 2752552 A1 20140709; EP 2752552 B1 20180704; WO 2013175217 A1 20131128

DOCDB simple family (application)

EP 12169534 A 20120525; EP 14163230 A 20120525; GB 2013051352 W 20130523