

Title (en)

SCROLL FLUID MACHINE

Title (de)

STRÖMUNGSMASCHINE IN SPIRALBAUWEISE

Title (fr)

MACHINE A FLUIDE AVEC VOLUTE

Publication

EP 1876356 A1 20080109 (EN)

Application

EP 06731149 A 20060405

Priority

- JP 2006307201 W 20060405
- JP 2005116985 A 20050414

Abstract (en)

A scroll fluid machine having a scroll unit that includes a fixed scroll (36) and a movable scroll (38) that are each constructed from an end plate and a scroll wall integral with the end plate, and also includes a chip seal (42) provided at the tip of the scroll wall of one of the scrolls and in relative sliding contact with the end plate of the other scroll. For example, a part (radial projection) of a chip seal (42) on the movable scroll side is projected from an outer wall surface of a scroll wall (38b), and when a pressure chamber is formed between the fixed scroll and the movable scroll, the radial projection is in relative sliding contact with the inner wall surface of a scroll wall (36b) of the fixed scroll to secure a fine gap (G) between the inner and outer wall surfaces. The simple structure as above can relax conditions of sliding between the scroll walls with sealability of the pressure chamber maintained, and the scroll fluid machine has excellent durability.

IPC 8 full level

F04C 18/02 (2006.01)

CPC (source: EP US)

F01C 1/0215 (2013.01 - EP US); **F01C 11/004** (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 27/001** (2013.01 - EP US);
F04C 27/005 (2013.01 - EP US); **F04C 23/003** (2013.01 - EP US)

Cited by

EP2466068A4; GB2485101A; GB2485101B; DE102010025988A1; EP2402612A3; US11646624B2; US9353746B2; WO2011018598A3;
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Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

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DOCDB simple family (application)

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