

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; US9353748B2; US9938975B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1876356 A1 20080109; EP 1876356 A4 20080402; EP 1876356 B1 20130626; CN 101160466 A 20080409; JP 2006291925 A 20061026; US 2009060768 A1 20090305; WO 2006112262 A1 20061026

DOCDB simple family (application)
EP 06731149 A 20060405; CN 200680012387 A 20060405; JP 2005116985 A 20050414; JP 2006307201 W 20060405; US 91165606 A 20060405