

Title (en)
Scroll fluid machine

Title (de)
Spiralf fluidmaschine

Title (fr)
Machine à volutes pour fluides

Publication
EP 1632646 A1 20060308 (EN)

Application
EP 04021089 A 20040904

Priority
EP 04021089 A 20040904

Abstract (en)
A scroll fluid machine comprises stationary and orbiting scrolls 1,2. The orbiting scroll 2 is revolved by a driving shaft 21 with respect to the stationary scroll 1 to crease an inner expanding region. Fluid from the inner expanding region flows to the rear side of an orbiting end plate 2' of the orbiting scroll 2. An expanding cover 120 is mounted to the orbiting end plate 2' to create a narrower space 124 between a boss 4 of the orbiting end plate 2' and an inward-projecting portion 123 of the expanding cover 120. Fluid from the expanding region flows through the narrower space 124 and is depressurized or cooled. The cooled fluid cools the boss 4.

IPC 8 full level
F01C 1/02 (2006.01); **F01C 11/00** (2006.01); **F01C 21/06** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP)
F01C 1/0215 (2013.01); **F01C 1/0246** (2013.01); **F01C 11/004** (2013.01); **F01C 21/06** (2013.01); **F04C 23/008** (2013.01)

Citation (search report)
• [DA] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)
• [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

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

DOCDB simple family (publication)
EP 1632646 A1 20060308; **EP 1632646 B1 20070228**; AT E355444 T1 20060315; DE 602004005039 D1 20070412;
DE 602004005039 T2 20071031

DOCDB simple family (application)
EP 04021089 A 20040904; AT 04021089 T 20040904; DE 602004005039 T 20040904