Title (en)

SCROLL MEMBER AND SCROLL-TYPE FLUID MACHINE

Title (de)

ROLLENELEMENT UND FLUIDMASCHINE MIT ROLLEN

Title (fr)

ÉLÉMENT DE VOLUTE ET MACHINE À FLUIDE DU TYPE À VOLUTE

Publication

EP 2740938 A1 20140611 (EN)

Application

EP 12822800 A 20120706

Priority

- JP 2011171467 A 20110805
- JP 2012004408 W 20120706

Abstract (en)

To provide a scroll member that can prevent stress concentration on a base of a step portion. In an orbiting scroll 20 including: an end plate 21; a spiral lap 22 standing on one side surface of the end plate 21, and extending from a center side to an outer peripheral end side; a top end side step portion 62 provided on a top end side of the lap 22, the center side of the top end side step portion 62 being lower than the outer peripheral end side of the top end side step portion 62; and a base end side step portion 70 provided on a one side surface of the lap 22, the center side of the base end side step portion 70 being higher than the outer peripheral end side of the base end side step portion 70, a thinned portion 66 is provided in a predetermined engagement range from an engagement start position 65 of the laps 22 in one or both of the top end side step portion 62 and the base end side step portion 70.

IPC 8 full level

F04C 18/02 (2006.01)

CPC (source: EP)

F04C 18/0215 (2013.01); **F04C 18/0269** (2013.01); **F04C 18/0276** (2013.01); F04C 23/008 (2013.01)

Cited by

CN107002673A; EP3441614A4; CN107709782A; EP3309398A4; USD863381S; USD931347S; US10590769B2; US10766120B2

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

DOCDB simple family (publication)

EP 2740938 A1 20140611; **EP 2740938 A4 20150506**; **EP 2740938 B1 20180912**; JP 2013036366 A 20130221; JP 5888897 B2 20160322; WO 2013021545 A1 20130214

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