

Title (en)
SCROLL FLUID MACHINE

Title (de)
SPIRALFLUIDMASCHINE

Title (fr)
MACHINE DE DÉFILEMENT DE FLUIDE

Publication
EP 3159545 A1 20170426 (EN)

Application
EP 16194260 A 20161018

Priority
JP 2015206683 A 20151020

Abstract (en)
An outer shape of an eccentric pin (25) of a rotating shaft (19) has: a first circular arc (25a) formed in a range of an outer shape of the rotating shaft (19), with a first radius (Ra) having a length exceeding a part of an outer edge (19b) of the rotating shaft (19), the first radius (Ra) having a center at a position of an eccentric center (LE); and a second circular arc (25b) formed in a portion where the first radius (Ra) exceeds the outer edge (19b), with a second radius (Rb) having a length equal to or less than a radius (R) forming the outer edge (19b), the second radius (Rb) having a center at a position of a shaft center (CE).

IPC 8 full level
F04C 29/00 (2006.01); **F01C 17/06** (2006.01); **F04C 18/02** (2006.01)

CPC (source: EP)
F01C 17/063 (2013.01); **F04C 18/0215** (2013.01); **F04C 29/0021** (2013.01); **F04C 29/0057** (2013.01); **F04C 2240/52** (2013.01); **F04C 2240/60** (2013.01); **F04C 2240/807** (2013.01)

Citation (applicant)
JP 2003343454 A 20031203 - DAIKIN IND LTD

Citation (search report)
• [XY] JP H07197890 A 19950801 - MITSUBISHI ELECTRIC CORP
• [X] US 2015037185 A1 20150205 - ROOD JERRY ALLEN [US], et al
• [Y] US 5542830 A 19960806 - YUZAKI TSUNEO [JP]
• [Y] JP H0842467 A 19960213 - MITSUBISHI ELECTRIC CORP
• [Y] EP 2913531 A1 20150902 - MITSUBISHI HEAVY IND LTD [JP]
• [A] JP H05288168 A 19931102 - SANYO ELECTRIC CO
• [A] US 2010172781 A1 20100708 - KUWAHARA TAKAYUKI [JP], et al

Cited by
CN112534138A; CN110735790A

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 3159545 A1 20170426; JP 2017078360 A 20170427; JP 6685689 B2 20200422

DOCDB simple family (application)
EP 16194260 A 20161018; JP 2015206683 A 20151020