

Title (en)
SCREW ROTOR

Title (de)
SCHRAUBENROTOR

Title (fr)
ROTOR À VIS

Publication
EP 3187734 A1 20170705 (EN)

Application
EP 15837048 A 20150715

Priority
• JP 2014173541 A 20140828
• JP 2015070232 W 20150715

Abstract (en)
In a screw rotor, three points of a main trailing-side lobe tip point B1, a gate leading-side lobe tip point D2', and an intersection point Q of a surface of a casing 3 facing a main rotor 10 and a surface of the casing 3 facing a gate rotor 20 coincide with each other at a specific rotation phase of the rotor. A main trailing lobe face is formed by an epicycloid curve traced by the gate leading-side lobe tip point D2' in accordance with rotation phase advancement from the specific rotation phase, and a gate leading lobe face is formed by an epicycloid curve traced by the main trailing-side lobe tip point B1 in accordance with rotation phase advancement from the specific rotation phase.

IPC 8 full level
F04C 18/16 (2006.01)

CPC (source: EP)
F04C 18/084 (2013.01); **F04C 18/16** (2013.01)

Citation (search report)
See references of WO 2016031413A1

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Designated extension state (EPC)
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EP 15837048 A 20150715; JP 2015070232 W 20150715; JP 2016545044 A 20150715