

Title (en)  
SWASH PLATE FOR SWASH PLATE COMPRESSOR, METHOD FOR MANUFACTURING SAME, AND SWASH PLATE COMPRESSOR

Title (de)  
TAUMELSCHIBE FÜR TAUMELSCHIBENKOMPRESSOR, VERFAHREN ZUR HERSTELLUNG DAVON UND  
TAUMELSCHIBENKOMPRESSOR

Title (fr)  
PLATEAU OSCILLANT POUR COMPRESSEUR À PLATEAU OSCILLANT, SON PROCÉDÉ DE FABRICATION ET COMPRESSEUR À PLATEAU  
OSCILLANT

Publication  
**EP 2878820 A1 20150603 (EN)**

Application  
**EP 13799846 A 20130603**

Priority  
• JP 2012129629 A 20120607  
• JP 2013114875 A 20130531  
• JP 2013065349 W 20130603

Abstract (en)  
The present invention provides a resin coating-provided swash plate, for a swash plate compressor, manufactured in a manufacturing method which includes a process shorter than a process of a conventional coating method and which allows the resin coating to be subjected to grinding processing with high accuracy and to have a high strength of adhesion to a base material of the swash plate, a method for manufacturing the swash plate, and the swash plate compressor having the swash plate. A swash plate (3) for a swash plate compressor is so constructed that inside a housing where a refrigerant is present, a rotational motion of the swash plate (3) mounted perpendicularly and obliquely on a rotational shaft by directly fixing the swash plate (3) thereto or indirectly fixing the swash plate thereto through a coupling member to the rotational shaft is converted into a reciprocating motion of a piston through a shoe which slides on the swash plate (3) to compress and expand the refrigerant. A resin coating (10) is formed on a sliding contact surface of the swash plate (3) on which the shoe slides and has a layered structure in which a plurality of layers lie one upon another in a direction parallel with the sliding contact surface in an axial cross section thereof. The resin coating (10) is formed by linearly applying resin paint (12) discharged from a discharge port (11) to a base material (3a) of the swash plate (3).

IPC 8 full level  
**F04B 27/08** (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP KR US)  
**F04B 1/124** (2013.01 - US); **F04B 1/2078** (2013.01 - US); **F04B 27/086** (2013.01 - EP US); **F04B 27/1054** (2013.01 - EP KR US); **F05B 2230/90** (2013.01 - KR); **F05C 2251/14** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP KR US); **F05C 2253/20** (2013.01 - EP KR US); **Y10T 29/49245** (2015.01 - EP US)

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 2878820 A1 20150603**; **EP 2878820 A4 20160511**; CN 104471246 A 20150325; IN 10607DEN2014 A 20150911;  
JP 2014013036 A 20140123; KR 20150020665 A 20150226; US 2015176572 A1 20150625; WO 2013183586 A1 20131212

DOCDB simple family (application)  
**EP 13799846 A 20130603**; CN 201380029692 A 20130603; IN 10607DEN2014 A 20141212; JP 2013065349 W 20130603;  
JP 2013114875 A 20130531; KR 20157000246 A 20130603; US 201314406142 A 20130603