

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

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Application
EP 13799846 A 20130603

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Abstract (en)
[origin: EP2878820A1] 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).

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Citation (search report)

- [XYI] EP 2264316 A1 20101222 - TAIHO KOGYO CO LTD [JP]
- [Y] US 2010316517 A1 20101216 - TANIGAWA NAONARI [JP], et al
- [X] JP 2004300926 A 20041028 - SANDEN CORP
- [A] WO 2007091564 A1 20070816 - NTN TOYO BEARING CO LTD [JP], et al
- [A] EP 1281881 A1 20030205 - TAIHO KOGYO CO LTD [JP]
- See references of WO 2013183586A1

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