

Title (en)
PUMP DEVICE

Title (de)
PUMPVORRICHTUNG

Title (fr)
DISPOSITIF DE POMPE

Publication
EP 3115608 A4 20171101 (EN)

Application
EP 15757983 A 20150225

Priority
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Abstract (en)
[origin: EP3115608A1] The purpose of the present invention is to suppress the occurrence of unevenness in a rotor of an internal gear pump, suppress the formation of gaps between the end surfaces (side surfaces) of an inner rotor and an outer rotor, and to prevent a decline in volume efficiency. Thus, the pump device of the present invention includes an internal gear pump (10), in which an inner rotor (13) is inscribed to an outer rotor (12), and includes a plate member (7) which is provided to an end surface of the rotors. The plate member (7) is formed of a material having high hardness, has a shape that does not block a suction port (150), has a through-hole (73) formed therein, and has O-ring grooves (71,72), which each have a continuous shape and house an O-ring formed therein.

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Citation (search report)
• [X] DE 102012213771 A1 20140206 - BOSCH GMBH ROBERT [DE]
• [X] WO 2012079982 A2 20120621 - BOSCH GMBH ROBERT [DE], et al
• [E] EP 2971775 A1 20160120 - BOSCH GMBH ROBERT [DE]
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• See references of WO 2015133342A1

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