

Title (en)  
Variable displacement swash plate type compressor

Title (de)  
Taumelscheibenverdichter mit variabler Kapazität

Title (fr)  
Compresseur à plateau oscillant à déplacement variable

Publication  
**EP 2927492 A3 20151202 (EN)**

Application  
**EP 15155907 A 20150220**

Priority  
JP 2014061850 A 20140325

Abstract (en)  
[origin: EP2927492A2] In the compressor of the present invention, guide surfaces 57a and 57b are formed on a lug plate 51 and guided surfaces 59a and 59b are formed on swash plate arms 5e and 5f. The guide surfaces 57a and 57b and the guided surfaces 59a and 59b are respectively in linear contact with one another at a first abutment position P1 when an inclination angle is maximum and are in linear contact with one another at a second abutment position P2 when the inclination angle is minimum. The guide surfaces 57a and 57b are formed such that portions between the first abutment position P1 and the second abutment position P2 are convex toward the guided surfaces 59a and 59b. In the compressor, a contact angle  $\alpha_1$  at the first abutment position P1 can be made large, and a contact angle  $\alpha_2$  at the second abutment position P2 can be made small.

IPC 8 full level  
**F04B 27/10** (2006.01); **F04B 27/18** (2006.01)

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Citation (search report)  
• [X1] EP 2423507 A1 20120229 - SANDEN CORP [JP]  
• [AD] JP H08105384 A 19960423 - SANDEN CORP  
• [A] US 2005186086 A1 20050825 - OTA MASAKI [JP], et al

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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