

Title (en)
Coating for a swash plate of a swash plate compressor

Title (de)
Beschichtung einer Schrägscheibe eines Kompressors

Title (fr)
Revêtement d'un plateau-came d'un compresseur

Publication
EP 1188923 B1 20040616 (EN)

Application
EP 01122238 A 20010917

Priority
JP 2000281698 A 20000918

Abstract (en)
[origin: EP1188923A2] A swash plate type compressor that has a pair of shoes (18A, 18B, 18C, 18D, 18E) between a swash plate (15) and a piston (17). The motion of the swash plate is transmitted to the piston through the shoes. Each piston reciprocates according to the transmitted motion. A coating (32, 33) is applied to each surface of the swash plate to contact the corresponding shoe. The surface (H) of each coating (32, 33) is flat. Each shoe (18A to 18E) includes a substantially flat surface (34), which contacts the swash plate (15), and a semi-spherical portion (35), which is fitted to the piston (17). Each substantially flat surface (34) includes a main chamfered portion (342) near the periphery. The inclination angle (θ) of each main chamfered portion (342) with respect to the corresponding coating is a predetermined angle or less. Each coating contacts one of the substantially flat surfaces (34). The maximum distance (β) between each main chamfered portion (342) and the corresponding coating is equal to or less than the thickness (D) of the corresponding coating (32, 33). <IMAGE>

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

CPC (source: EP KR US)
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