

Title (en)
VANE COMPRESSOR

Title (de)
FLÜGELZELLENVERDICHTER

Title (fr)
COMPRESSEUR À PALETTES

Publication
EP 3318760 A1 20180509 (EN)

Application
EP 16817893 A 20160628

Priority
• JP 2015130554 A 20150630
• JP 2016069083 W 20160628

Abstract (en)
[Object] To provide a vane compressor in which the structure of the lower end portion of a vane is changed so that the shoulder portions of the lower end portion of the vane have difficulty in overriding on the arc surface on the side of the back pressure chamber and the rotation of the rotor is thereby prevented from being restricted by the vane protruding from the outer peripheral surface of the rotor. [Solution] A back pressure chamber 10 having a concave arc surface 101 is formed on the bottom of the vane groove 5, a lower end portion 61 in the forward or backward travel direction of the vane 6 has a convex arc surface 611a facing a bottom side arc surface 101c of the concave arc surface 101 of the bottom of the vane groove 5, and voids D are generated between the lower end portion 61 of the vane 6 and the concave arc surface 101 on the bottom of the vane groove 5 on both sides in the thickness direction of the vane 6 when the lower end portion 61 of the vane 6 makes contact with the bottom side arc surface 101c of the concave arc surface 101 of the bottom of the vane groove 5.

IPC 8 full level
F04C 18/344 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)
F01C 21/0854 (2013.01); **F04C 18/344** (2013.01)

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