

Title (en)
VARIABLE DISPLACEMENT VANE PUMP

Title (de)
VERSTELLBARE FLÜGELZELLENPUMPE

Title (fr)
POMPE À PALETTES À DÉBIT VARIABLE

Publication
EP 3290710 A1 20180307 (EN)

Application
EP 16786367 A 20160419

Priority
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Abstract (en)
A variable displacement vane pump includes: a control orifice 104 that imparts resistance to a flow of working oil discharged from pump chambers 6; a flow-amount control valve 102 that operates in accordance with an upstream-downstream differential pressure of the control orifice 104 and controls a flow amount of the working oil discharged from the pump chambers 6; a variable control valve 103 that is operated by the working oil that has passed through the control orifice 104 and controls an amount of eccentricity of a cam ring 4 with respect to a rotor 2 by controlling a pressure difference between a first fluid pressure chamber 15 and a second fluid pressure chamber 16; and a return passage 42 that is connected to the flow-amount control valve 102 and circulates a part of the working oil discharged from the pump chambers 6 through a suction passage 40.

IPC 8 full level
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