

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  
• JP 2015090303 A 20150427  
• JP 2016062416 W 20160419

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  
**F04C 14/24** (2006.01); **F04C 2/344** (2006.01); **F04C 14/22** (2006.01); **F04C 14/26** (2006.01)

CPC (source: EP US)  
**F04C 2/344** (2013.01 - EP US); **F04C 14/22** (2013.01 - US); **F04C 14/223** (2013.01 - EP US); **F04C 14/24** (2013.01 - EP US); **F04C 14/26** (2013.01 - US); **F04B 2201/1213** (2013.01 - US); **F04C 2210/206** (2013.01 - EP US); **F04C 2270/20** (2013.01 - US); **F04C 2270/215** (2013.01 - US); **F04C 2270/585** (2013.01 - US)

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DOCDB simple family (publication)  
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