

Title (en)  
Positive displacement pump with variable capacity

Title (de)  
Verdrängerpumpe mit variablem Fördervolumen

Title (fr)  
Pompe volumétrique à débit variable

Publication  
**EP 1760317 A3 20080709 (DE)**

Application  
**EP 06115763 A 20060621**

Priority  
DE 102005033293 A 20050716

Abstract (en)  
[origin: DE102005033293A1] The displacement pump with variable delivery volumes, particularly a single stroke vane cell pump, produces a pressure medium flow for a user. It has a rotor in a housing and a freely accessibly held curve ring surrounded by a walling. The curve ring for altering the delivery volume is displaceable to the rotor. A spring component influences the position of the curve ring. The spring component (18) is arranged in a cavity (17) of the walling (22). The walling is formed by the housing (2) and an outer ring (3) inserted in the housing, facing the curve ring (6). The shape of the cavity and spring component are so matched that the spring component is comfortably positionable in the cavity. The last winding (20) of the spring component has a shape matching that of the cavity.

IPC 8 full level  
**F04C 14/22** (2006.01)

CPC (source: EP)  
**F04C 14/226** (2013.01); **F04C 2240/10** (2013.01)

Citation (search report)

- [XY] US 2635551 A 19530421 - DE LANCEY WARREN H
- [XY] US 2678607 A 19540518 - HUFFERD GEORGE H, et al
- [X] US 2651994 A 19530915 - DE LANCEY WARREN H, et al
- [X] US 2637275 A 19530505 - MCFARLAND FOREST R
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**DE 102005033293 A1 20070125**; EP 1760317 A2 20070307; EP 1760317 A3 20080709

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**DE 102005033293 A 20050716**; EP 06115763 A 20060621