

Title (en)
VOLUMETRIC PUMP WITH FLOW COMPLEMENTARY RADIAL CAMS

Title (de)
VOLUMETRISCHE PUMPE MIT STRÖMUNGSTECHNISCH KOMPLEMENTÄREN RADIALNOCKEN

Title (fr)
POMPE VOLUMÉTRIQUE À CAMES RADIALES COMPLÉMENTAIRES D'ÉCOULEMENT

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Application
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Abstract (en)
[origin: WO2020020864A1] A volumetric pump comprising a chamber (1) having a breadth, B, an inlet volume with an inlet and an outlet volume with an outlet, separated from each other m pumping systems enclosed in the chamber, with $m \in \mathbb{N}$, and $m > 1$, each pumping system comprising, at least a portion of one of m/k radial cams (3i) with $k \in \mathbb{N}$ and $k > 0$, comprising at least two noses, wherein the m/k cams are rotatably mounted on an axis of rotation, Z1, parallel to the breadth; a vane movingly mounted in the chamber to keep permanent contact with a circumference (3t) of the radial cam, wherein each pumping system delivers by rotation of the corresponding cam a volume, V_i , of fluid from inlet to outlet at a flow rate, $Q_i = dV_i/dt$, wherein, the sum of the nominal flow rates and of volumetric displacements are, within a tolerance, constant.

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