

Title (en)

VOLUMETRIC-DISPLACEMENT DEVICE HAVING MOLDED PISTONS AND CYLINDERS

Title (de)

VORRICHTUNG MIT VOLUMETRISCHER VERDRÄNGUNG UND GEGOSSENEN ZYLINDERN UND KOLBEN

Title (fr)

DISPOSITIF A DEPLACEMENT VOLUMETRIQUE COMPRENANT DES CYLINDRES ET DES PISTONS MOULES

Publication

**EP 1021642 A4 20020925 (EN)**

Application

**EP 98935719 A 19980717**

Priority

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Abstract (en)

[origin: WO9904140A1] A volumetric-displacement-maximizing device includes a molded slider (12) bidirectionally movable within an elongate cavity (14) formed within a molded body (16). The body (16) also includes a port structure (18) with an output port (18a) and an input port (18b), each providing channels for communication between the cavity (14) and an extra body location. A power device (22) causes the slider (12) to move bidirectionally within the cavity (14), and the clearance between the slider (12) and the cavity (14) exceeds 0 - but is less than approximately 0.0003 inches. The device of the invention takes several alternative forms including a fluid mechanical device, and has several alternate applications as a pump, valve, or motor. The invention also includes various method features.

IPC 1-7

**F01B 9/00**; **F04B 39/10**; **F16J 9/00**; **F16J 10/02**; **F04B 53/14**

IPC 8 full level

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Citation (search report)

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