

Title (en)

ELASTOMERIC DISPENSING PUMP THAT CAN BE MADE WITH AS FEW AS TWO COMPONENTS

Title (de)

MIT NUR ZWEI KOMPONENTEN HERSTELLBARE ELASTOMERE ABGABEPUMPE

Title (fr)

POMPE DE DISTRIBUTION ÉLASTOMÈRE POUVANT ÊTRE COMPOSÉE DE SEULEMENT DEUX ÉLÉMENTS

Publication

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Application

**EP 09762783 A 20090217**

Priority

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Abstract (en)

[origin: US2009302064A1] A fluid dispensing pump that can be manufactured from as few as two parts: a stationary pump base (200) provided with an inlet passageway (201), and an integral pump top (300) provided with a fluid-tight attachment to the pump base and including a generally rigid core (310) and a self-restoring elastomeric layer (320). The generally rigid core (310) has a base attachment portion (311) and a dispensing valve core (315). The elastomeric layer (320) includes a resilient self-restoring pump wall (323) and a dispensing valve membrane (325). Upon assembly of the pump base and the pump top, a fully functional dispensing pump (100) is created with an inlet passageway (101), a one-way inlet valve (102), a self-restoring resilient pump cavity of variable volume (103) and a one-way dispensing valve (105). The one-way dispensing valve is preferably self-closing. The integral pump top (300) may have a rigid or semi-rigid actuator portion (314) bound to or imbedded into the resilient self-restoring pump wall (323). The dispensing pump of the present invention may have a valved venting passage for those applications that require it and may have a secure lock-in mechanism for leakage prevention during storage or transportation.

IPC 8 full level

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