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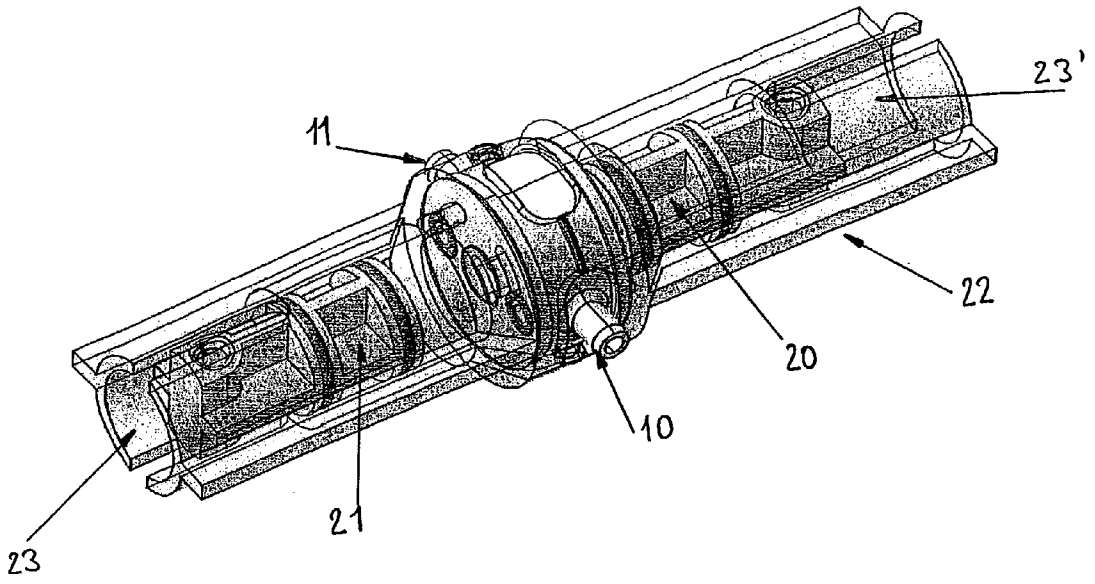
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(54) **Title:** VOLUMETRIC PUMP WITH RECIPROCATED AND ROTATED PISTON



(57) **Abstract:** A volumetric pump (1) comprising at least one piston (2) in a hollow cylinder (3), said pump (1) having at least one inlet port (10) through which a liquid (15) can be sucked into a pump chamber (3) during an instroke of said piston (2), and at least one outlet port (11) through which the liquid (15) can be expelled during an outstroke of the piston (2). Said piston (2) or the hollow cylinder (3) of the volumetric pump (1) can be actuated directly or indirectly by at least one rotor (5). This rotor (5) transmits, on the one hand a bi-directional linear movement to the piston (2) or to the cylinder (3) causing said piston (2) to slide back and forth inside said cylinder (3) or following the axis of said piston (2), and on the other hand, a bi-directional angular movement either to the piston (2) or to a disc (24) in order to open and close alternately the inlet and outlet ports (10, 11).

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