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(71) Applicant: **Rampazzo, Giovanni**
35030 Selvazzano Dentro (PD) (IT)

(72) Inventor: **Rampazzo, Giovanni**
35030 Selvazzano Dentro (PD) (IT)

(74) Representative: **Modiano, Micaela Nadia**
Dr. Modiano & Associati SpA
Via Meravigli 16
20123 Milano (IT)

(54) Dosage Pump

(57) A dosage pump, of the type comprising a hollow body (11) which is adapted to be interposed between portions of piping of a hydraulic circuit and is provided internally with a vaned rotary element (12), which rotates due to the flowing fluid and is associated with means (13) for speed reduction and transmission and with means (14) for converting rotary motion into reciprocating rectilinear motion, which in turn are connected to means (15) for drawing and pumping the liquid to be dosed; these means for drawing and pumping are provided, inside a container (16) for the liquid, which is fixed to the hollow body (11), by an injection stem (17), which is moved by the motion conversion means (14) so that it enters and exits, with its end (18), a dosage chamber (19) which is closed by a flow control element (20) which is pushed by elastic means (21); the chamber (19) is connected to the inside of the container (16) on the side of the injection stem (17) and to a channel (22) for connection to a pipe (23) for the rise of the dosed liquid toward the hollow body (11) on the side of the flow control element (20). The means (14) for converting rotary motion into reciprocating rectilinear motion are constituted by a cam (28) which is keyed onto a shaft (29) which is turned by the means (13) for mechanical transmission and reduction of rotary motion, the cam (28) being inserted within a slot (30) formed on the head (31) of the injection stem (17), so as to transmit thrust to the stem (17) both downward and upward.

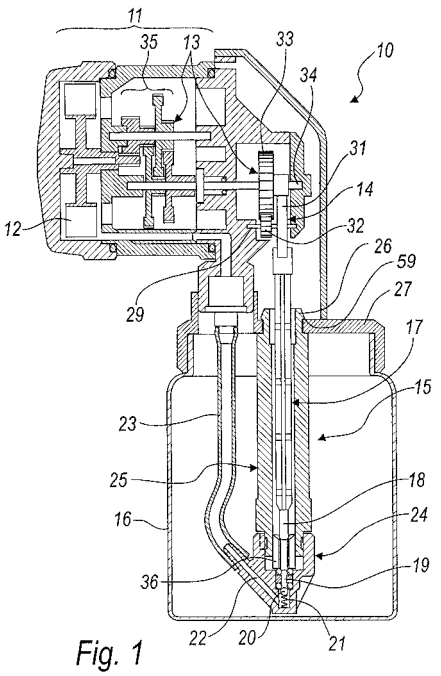

Fig. 1

EP 1 820 966 A8