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(54) **MICRO PUMP**

(57) A micro pump is applied to be implanted into human's blood vessels and includes a substrate (1), a flow-guiding-and-actuating unit (2), plural switching valves (3, 3a, 3b, 3c), a driving chip (4) and a micro-mirror (5). The substrate (1) has plural guiding channels including an inlet channel (11), an outlet channel (12) and a branch channel (13). The flow-guiding-and-actuating unit (2) covers a compressing chamber (14), and is enabled to change the volume of the compressing chamber (14) so as to transport fluid. When a communication connector of the driving chip (4) receives an external command, the

driving chip (4) enables the flow-guiding-and-actuating unit (2) and the micro-mirror (5), and controls the open/closed states of the switching valves (3, 3a, 3b, 3c) covering an outlet aperture (162) and a storage outlet (151), thereby the flow-guiding-and-actuating unit (2) drives the fluid medicine (6) from a storage chamber (15) to the outlet aperture (162), so as to deliver the fluid medicine (6) to a target blood vessel.

EP 3 476 415 A8

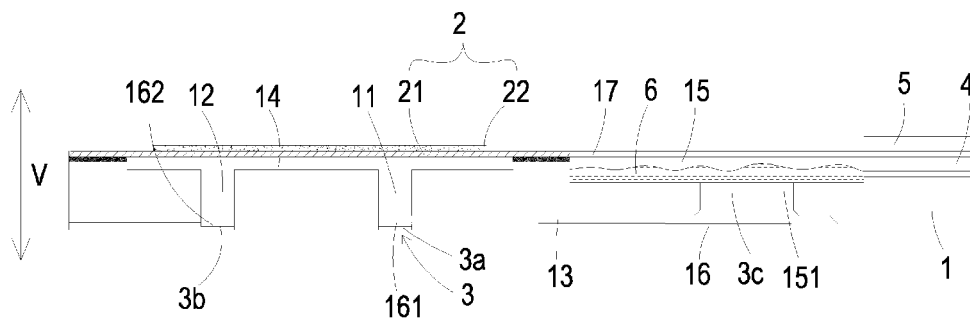


FIG.1