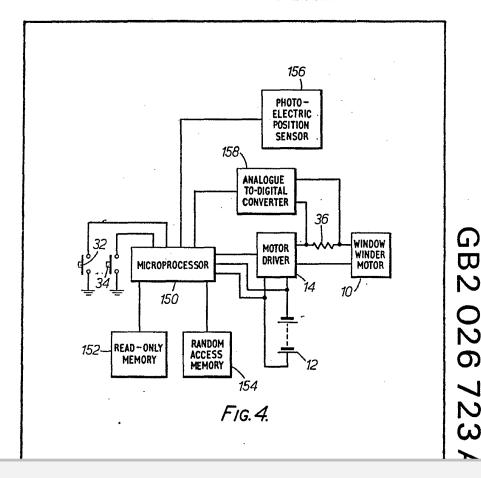
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  - (51) INT CL<sup>3</sup> E05F 15/16 H02P 1/22 3/08
  - (52) Domestic classification G3N 287 404 L H1N 731 73X
  - (56) Documents cited
    GB 1546665=
    DE 2523091A
    GB 1441983
    GB 1395749
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    GB 1096808
    GB 813974
    GB 718637
  - (58) Field of search
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## (54) Circuits for Electric Window Winders for Vehicles

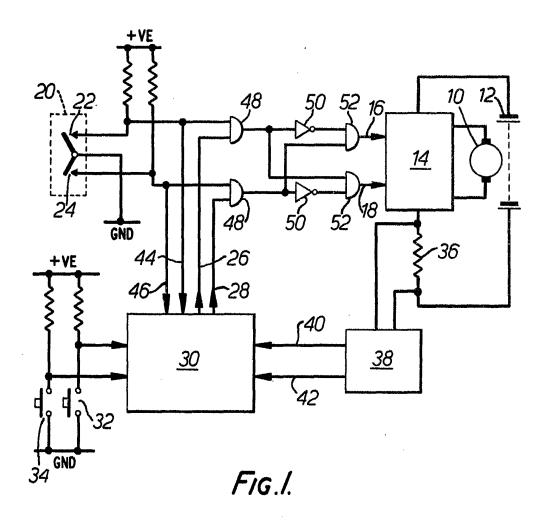
(57) Various control circuits are described for electric window winders for vehicles. All these circuits allow the window to be fully closed or fully opened by a momentary operation of a control switch. In Figs. 1—3 (not shown), a bistable circuit (30) responds to momentary operation of a control switch (32 or 34). In Fig. 4, a microprocessor 150 responds to momentary operation of control switch 32 or 34. In Figs. 7-11 (not shown), the control switches are provided by a toggle switch having a mechanical retaining latch which operates upon actuation of the toggle

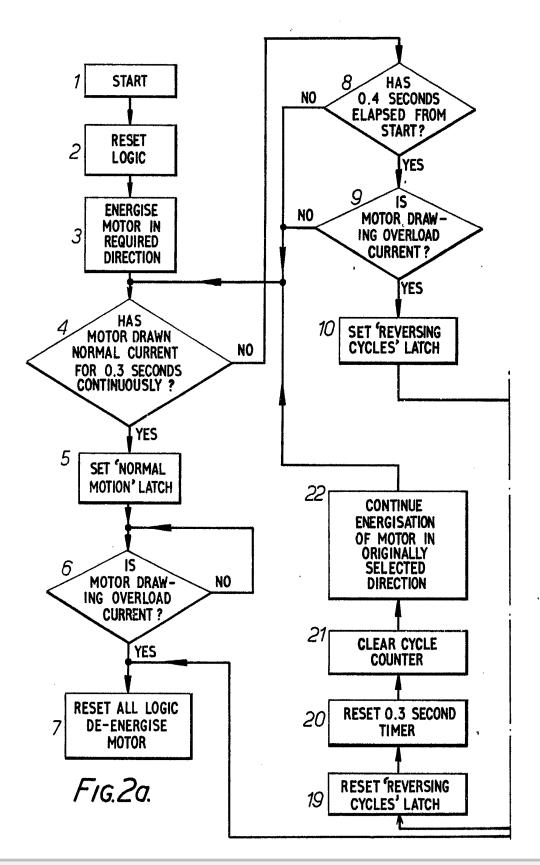
switch. Certain of the embodiments also have other features; they limit the current supplied to the motor of the window winder, so that a trapped finger, for example, is unlikely to be broken; and if the window refuses to move when the motor is energised, the motor energisation is reversed at intervals to try to free the window. In a particularly preferred embodiment, Fig. 4, the only operator controls are two push-buttons 32, 34, for opening and closing movement respectively: a momentary operation of the appropriate button will cause the window to close or open fully, while a more prolonged operation of a button will energise the motor for only as long as the button is operated.

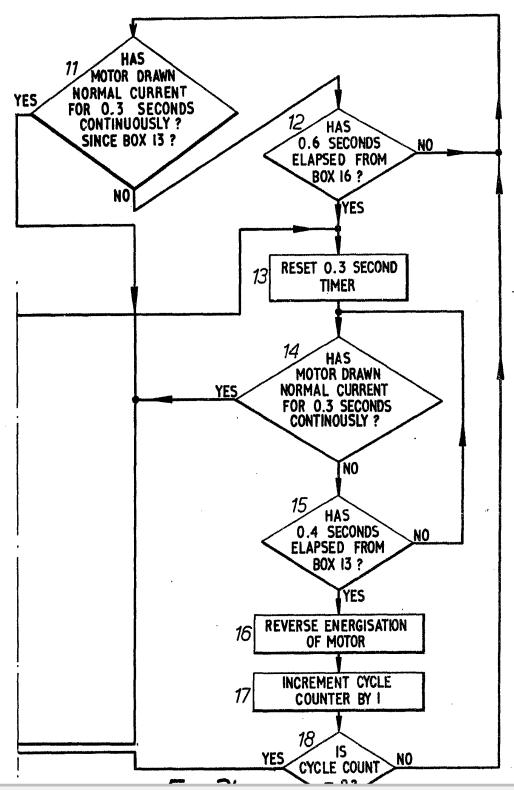


The drawings originally filed were informal and the print here reproduced is take from a later

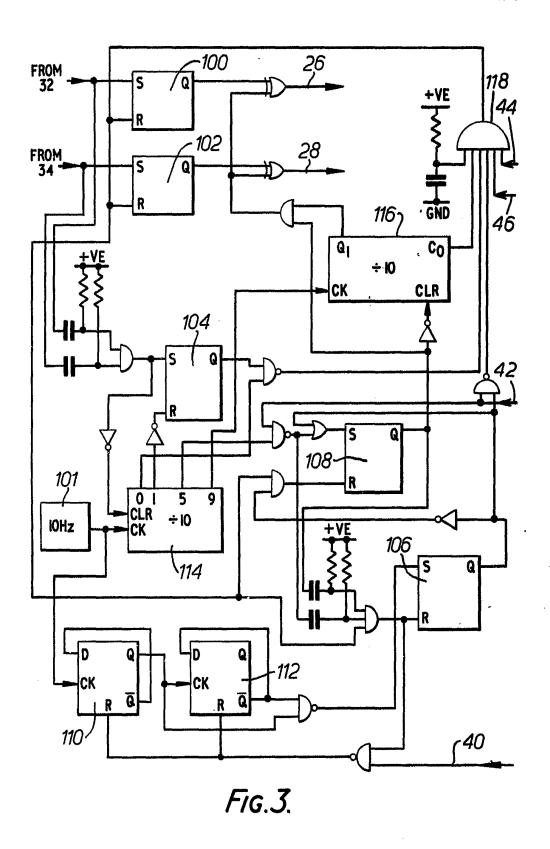












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