

Title (en)

CIRCUIT AND METHOD FOR REPEAT-STARTING INTERNAL-COMBUSTION ENGINES

Title (de)

SCHALTUNGSANORDNUNG UND VERFAHREN ZUR STARTWIEDERHOLUNG VON BRENNKRAFTMASCHINEN

Title (fr)

CIRCUIT ET PROCEDE DE REPETITION DU DEMARRAGE DE MOTEURS A COMBUSTION INTERNE

Publication

**EP 0731879 B1 19970528 (DE)**

Application

**EP 95901335 A 19941129**

Priority

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- DE 4341279 A 19931203

Abstract (en)

[origin: WO9515436A1] Proposed is a circuit for starting internal-combustion engines by means of a sliding-gear starter motor (10), the circuit having a repeat-start device (18) which, on occurrence of a meshing block, repeats the start process after a predetermined period of time has elapsed. In order to detect the occurrence of a meshing blockage (failure of the starter to engage), the circuit is fitted with a voltage detector which senses the voltage drop at the battery (15) caused by the starter-motor start-up current on meshing. If there is no voltage drop, the starter (10) is switched off by a switch (20) in the repeat-start device (18) and is switched in again after a period of time determined by a time-switch in the repeat-start device (18).

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**F02N 11/08**

IPC 8 full level

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