

Title (en)

PROCESS AND CIRCUIT ARRANGEMENT FOR A COMMUTATION AND TURNING-OFF SYSTEM OF A QUICK MAKE-AND-BREAK

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG FÜR EINE KOMMUTIERUNGS- UND LÖSCHEINRICHTUNG EINES SCHNELLUNTERBRECHERS

Title (fr)

PROCEDE ET CIRCUITERIE POUR SYSTEME DE COMMUTATION ET DE BLOCAGE D'UN INTERRUPTEUR A GRANDE VITESSE

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Application

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Abstract (en)

[origin: WO9620489A1] Known switching devices have a commutator connected in parallel to a switching section and a condenser for both driving the switch and turning-off the power semiconductor of the commutator. The disadvantage of these devices consists in that they are not able to supply the required turning-off energy in all cases. According to the invention, firing pulses for switching and bridging valves in the switching branch are triggered at the same time as a switching command for the quick make-and-break, so that the current is switched when the contact starts to open into the switching branch and only later, when the switching section of the quick make-and-break is already open and there is no more any risk of short-circuiting the turning-off condenser, a turning-off thyristor is fired and the switching thyristor is turned-off by discharging the turning-off condenser, cutting the switching current. In order to monitor the switching section, the corresponding valves in the switching branch are fired, establishing a current flow between the busbar and the switching section, and the current, whose intensity represents a criterion for the state of the section, is measured at the exit of the section. Various circuit arrangements are disclosed to carry out the process.

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