

Title (en)
DRIVER CIRCUIT FOR SWITCHING EDGE MODULATION OF A POWER SWITCH

Title (de)
TREIBERSCHALTUNG ZUR SCHALTFLANKENMODULATION EINES LEISTUNGSSCHALTERS

Title (fr)
CIRCUIT D'ATTAQUE SERVANT À LA MODULATION DES FRONTS DE COMMUTATION D'UN COMMUTATEUR DE PUISSANCE

Publication
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Application
EP 19746446 A 20190715

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Abstract (en)
[origin: WO2020016178A1] The invention relates to a driver circuit (1) for switching edge modulation of a power switch (2). The driver circuit according to the invention comprises a first driver circuit input (3) with a downstream input node (4) and a power switch (2) with an upstream first gate node (6). A charging path (7) comprising a charging resistor (11) is arranged between the input node (4) and the first gate node (6). Furthermore, a discharge path (8) comprising a discharge resistor (16) is arranged between the input node (4) and the first gate node (6). Moreover, a gate path (9) is arranged between the input node (4) and the first gate node (6). A power switch transistor, the gate of which is connected to the first gate node (6), is furthermore provided. A gate path (9) comprises a gate resistor (18). The driver circuit (1, 20) is configured such that during a switching process of the power switch (2), the gate path (9) is short-circuited at times either via the charging path (7) or via the discharge path (8) in order to increase the gradient of the switching behavior of the power switch (2).

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Citation (search report)
See references of WO 2020016178A1

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