

Title (en)

OPERATING A HALF-BRIDGE, ESPECIALLY A FIELD EFFECT TRANSISTOR HALF-BRIDGE

Title (de)

BETRIEB EINER HALBBRÜCKE, INSBESONDERE EINER FELDEFFEKTTRANSISTOR-HALBBRÜCKE

Title (fr)

FONCTIONNEMENT D'UN DEMI-PONT, EN PARTICULIER UN DEMI-PONT DE TRANSISTOR A EFFET DE CHAMP

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Application

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Priority

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Abstract (en)

[origin: WO2004075405A2] The invention relates to a circuit arrangement (1) for controlling the operation of a half-bridge (13) by pulse-width modulation, especially in a synchronous rectifier mode. Said circuit arrangement comprises a first terminal connection (23, 25) for electrically connecting the circuit arrangement (1) to an insulated gate terminal of a bridge valve (15, 17) of the half-bridge (13), a second terminal connection (20, 22) for electrically connecting the circuit arrangement (1) to an additional terminal of the bridge valve (15, 17), a lead (16, 18) electrically connecting the first terminal connection (23, 25) to the second terminal connection (20, 22), and an electric valve (43, 45) that can be switched on and off by pulse-width modulated signals. Said electric valve (43, 45) is disposed in the lead (16, 18) so that a flow of current through the lead (16, 18) can be released and blocked. The invention is specifically characterized in that at least one inductive component (35, 37) is provided in the lead (16, 18) so that a time course of an electric current flow in the lead (16, 18) is influenced by the inductance of the inductive component (35, 37), in addition to the influence of a possibly present parasitic inductance.

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