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**Plum et al.**(10) **Pub. No.: US 2022/0360186 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **CIRCUIT APPARATUS AND METHOD FOR CONTROLLING A SECONDARY SIDE OF A DIRECT VOLTAGE CONVERTER**(71) Applicant: **Robert Bosch GmbH**, Stuttgart (DE)(72) Inventors: **Thomas Plum**, Koeln (DE); **Jan Allgeier**, Karlsruhe (DE)(21) Appl. No.: **17/619,710**(22) PCT Filed: **Jun. 15, 2020**(86) PCT No.: **PCT/EP2020/066431**

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**ABSTRACT**

The invention relates to a circuit apparatus (10) for controlling the current flow of the secondary side (20) of a direct voltage converter, comprising: a controllable switch element (1) having a first connection (1a), a second connection (1c) and a control connection (1b); a snubber circuit, which is electrically coupled to the source connection (1a) and the second connection (1c); and a control circuit (5), which is designed to control a deactivation time of the controllable switch element (1) via the control connection (1b); wherein the control circuit (5) is electrically coupled to the snubber circuit and is designed to control the deactivation time according to an electrical parameter of the coupling.

