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**Teggatz**(10) **Pub. No.: US 2022/0352812 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **REVERSE RECOVERY CHARGE  
REDUCTION CIRCUIT****Publication Classification**

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(57) **ABSTRACT**

A method for reducing or eliminating current and voltage transients in a device including: providing the device, wherein the device comprises a transistor with a gate; and controlling the gate, wherein the gate is turned off to a non-zero value in a presence of the positive current flow and wherein the gate is turned on in a presence of the negative current flow; reducing the negative current flow; and reducing or eliminating current and voltage transients in the device.

