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(19) **United States**(12) **Patent Application Publication**  
**Schaible**(10) **Pub. No.: US 2024/0213881 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **ZVS ASSIST SNUBBER FOR SWITCHING  
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Apr. 26, 2022, now Pat. No. 11,929,682.**Publication Classification**(51) **Int. Cl.****H02M 3/335** (2006.01)**H02M 1/00** (2006.01)**H02M 1/34** (2006.01)(52) **U.S. Cl.**CPC ..... **H02M 3/335** (2013.01); **H02M 1/346**  
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(57)

**ABSTRACT**

A flyback voltage converter comprising an inductive winding, a main switch coupled in series with the inductive winding via a common node, and a snubber circuit coupled in parallel with the inductive winding and comprising a controllable switch having a gate and a source, wherein the gate is coupled with the source to prevent the controllable switch from turning on. A control circuit is coupled with the main switch and configured to turn the main switch on and off to convert an input voltage to an output voltage distinct from the input voltage.

