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Goetz et al.(10) **Pub. No.: US 2024/0222975 A1**(43) **Pub. Date: Jul. 4, 2024**(54) **POWER FLOW CONTROL MODULE FOR
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(57) **ABSTRACT**

A power flow control module adjusts a voltage or current in a line of an electrical network. The module includes: two module connections connecting to the line, switching elements, an energy storage, and two energy connections connecting to an energy source. The two module connections electrically connect the module in series with the line. Two of the switching elements are connected in series and are connected in parallel with the energy storage. The module is interconnected such that it is at a potential of the line of the electrical network and is galvanically isolated from a ground potential or another line of the electrical network. The switching elements are designed to increase or reduce an amplitude of the voltage in the line in order to adjust the voltage, to shift a phase of the voltage, or to control a current flow in the line.

