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**Kean**(10) **Pub. No.: US 2022/0360162 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **POWER FILTRATION SYSTEM****H02M 7/219** (2006.01)**H02J 7/02** (2006.01)(71) Applicant: **Spear Power Systems, Inc.**,  
Grandview, MO (US)(52) **U.S. Cl.**CPC ..... **H02M 1/123** (2021.05); **H02M 3/157**  
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**ABSTRACT****Related U.S. Application Data**(60) Provisional application No. 63/184,988, filed on May  
6, 2021.**Publication Classification**(51) **Int. Cl.****H02M 1/12** (2006.01)**H02M 3/157** (2006.01)

A power filtration system filters out a common mode signal from a DC conductor of a power system. The power filtration system comprises a first filter and at least one of a load or a power circuit. The first filter is connected to the DC conductor and configured to pass the common mode signal. The load is configured to dissipate the energy of the common mode signal. The power circuit is configured to conduct the common mode signal to an energy storage device.

