

-11-

ABSTRACTPOWER CONDITIONING CIRCUIT

A power conditioning circuit for conditioning power supplied by a power source at a nominal frequency over line, neutral and ground conductors to first, second and third output lines, respectively, wherein the first, second and third output lines are coupled to a load. The circuit comprises a first, second and third independent, inductors having toroidal winding configurations, that are coupled in series between the line, neutral and ground conductors, respectively, and the first, second and third output lines, respectively. All of the power supplied by the power source to the first, second and third output lines flows through the first, second and third inductors. The circuit also has at least one capacitor coupled between the conductors wherein one end of the capacitor is coupled to at least one of the conductors at a point between the power source and the inductors. The inductors block power at frequencies greater than the nominal frequency, thereby preventing power at frequencies greater than the nominal frequency from reaching the load. Furthermore, the at least one capacitor shunts power at frequencies greater than the nominal frequency.



G00002



162162