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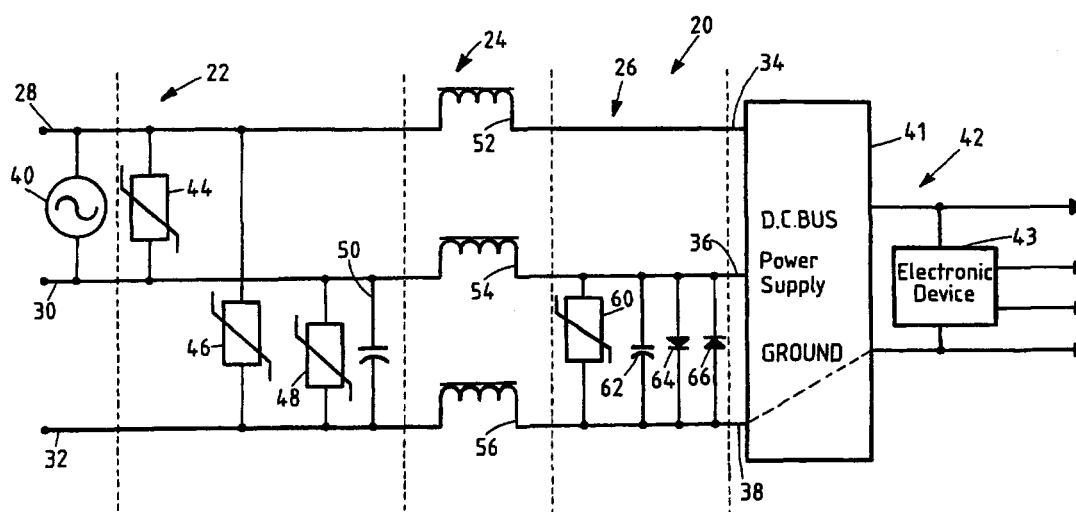
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(54) Title: A THREE STAGE POWER CONDITIONING CIRCUIT



(57) Abstract: A power conditioning circuit for conditioning power supplied by a power source at a nominal frequency over line, neutral and ground conductors includes first, second and third stages. The first stage provides voltage suppression and includes a set of three metal oxide varistors (MOVs). The second stage provides high frequency power suppression and includes three inductors coupled to the line, neutral and ground conductors, respectively, and to output lines. Each of the inductors prevents power at frequencies greater than the nominal frequency from reaching the output lines and each of the inductors may be rated to compensate for the capacitive impedance characteristics of a load supplied by the power conditioning circuit. The third stage provides voltage suppression and voltage clamping and includes an MOVs and a set of first and second rectifier diodes.