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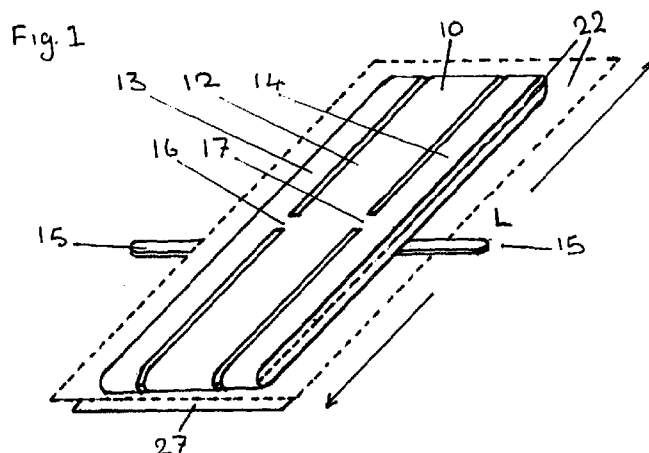
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(54) Title: AN INTERACTIVE ELECTROSTATIC FIELD HIGH ENERGY STORAGE AC BLOCKING CAPACITOR



(57) Abstract: A interactive electrostatic field high energy storage AC blocking capacitor in which a first a first embodiment of the invention comprises a charging plate in the form of an active interactive electrostatic field charging plate (10) being formed from electric conducting material into a three longitudinal parallel partially separated sectioned closed continuous electrical loop, comprising a mid-section (12) and two outer sections (13 and 14), one at each side of the mid-section. The charging plate in the form of an active interactive electrostatic field charging plate (10) is capacitively coupled to a negative plate (27) by a dielectric (material 22) and the negative plate (27) is provided with a connector (15) for connection to an electric circuit. The mid-section (12) is provided with a connector (15) as means to connect it to a source of a charge and the two outer sections (13 and 14) being electrically connected at (16 and 17) to the mid-section (12) in such a way so they have opposing charging current flow. When the active electrostatic field reversing charging plate is charged, the charging current flows around the mid-section (12) of the active interactive electrostatic field charging plate (10) charging it, creating an electrostatic field, which is concentrated along its outer edges. The same charging current then flows in the opposite direction around the two outer sections (13) and (14) charging them and creating an opposing concentrated electrostatic field along their outer edges. This ensures that the charge is evenly distributed in the dielectric material (22) around the active interactive electrostatic field charging

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plate by which the interactive electrostatic field charging plate (10) is capacitively coupled to the negative plate (27). Eliminating all localized electrostatic field concentrations, increasing the voltage at which it can be charged, thereby increasing electric energy storage capacity and being able to block AC current.