

Title (en)
POWER TRANSFORMER COMPRISING AN ELECTROACTIVE POLYMER

Title (de)
ENERGIETRANSFORMER MIT ELEKTROAKTIVEM POLYMER

Title (fr)
TRANSFORMATEUR D'ÉNERGIE À POLYMÈRE ÉLECTROACTIF

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Application
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Abstract (en)
[origin: WO2011072768A1] The invention relates to a power transformer (1) comprising an electroactive polymer (2). The electroactive polymer (2) forms a polymer film (3). The electroactive polymer film (3) has an electrode (4) and a counter-electrode (5) of a mechanically flexible capacitor (6), which forms a variable capacitance due to the mechanical flexibility and the electroactive polymer (2). The electrode (16) und the counter-electrode (17) each have a flat electrode grid (7) made of conductive material. A plurality of electrode grids (7) made of electrodes (16) and counter-electrodes (17) are stacked alternately one on top of the other and spaced apart and are penetrated by the material of the electroactive polymer (2). A layer (8) of electroactive polymer (2) is present between each electrode (16) and counter-electrode (17).

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