

Title (en)
HIGH-VOLTAGE SWITCHING DEVICE WITH ENERGY-SUPPLY DEVICE

Title (de)
HOCHSPANNUNGSSCHALTGERÄT MIT ENERGIEVERSORGUNGSEINRICHTUNG

Title (fr)
APPAREIL DE COMMUTATION À HAUTE TENSION COMPRENANT UN DISPOSITIF D'ALIMENTATION EN ÉNERGIE

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Application
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Abstract (en)
[origin: WO2013060617A1] The present invention relates to a high-voltage switching device with energy-supply device according to the preamble of the first claim. The general inventive idea consists in locating at least two oppositely wound first conductor loops in a first recessed region on the outer side of an EMC-secure housing for a high-voltage switching device, the outer side of which is designed as a screening plate, and that these loops interact electrically with at least two other second conductor loops, also wound in opposite directions, which are disposed in a second recessed region on the inside of the EMC-secure housing, also designed as a screening plate, such that due to the different directions of the windings of the first two conductive loops and the second two conductor loops, the current flows in opposite directions in the windings of the first and second two conductor loops, and thus each produces an opposing magnetic field, and these fields are additively superimposed such that the eddy currents on the outside and inside of the EMC-secure housing compensate for one another, and thus an inductive energy supply system will be created through the EMC-secure housing.

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