

Title (en)
HIGH-VOLTAGE POTENTIAL TRANSFORMER

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Application
EP 88117960 A 19881028

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Abstract (en)
[origin: US4845453A] A high-voltage voltage transformer with a core at high voltage which is surrounded coaxially by a high voltage winding provided with a slotted metal shield and with a low voltage winding also coaxially surrounding the same, as well as with a coaxial shielding electrode at ground potential and surrounding the high and low voltage winding is to be so constructed that coupling effects of high potentials for high frequency transient switching operations onto the secondary side, above all the secondary lead-out connecting lines cannot occur to any disturbing extent. This is achieved in that spaced at a slight distance up to a maximum of about 5 mm. from the metal shield a discharge electrode concentrically surrounding the same is provided insulated with respect to the metal shield. The discharge electrode is electrically conductively connected by way of one or several connecting lines of low inductance with the shielding electrode. The low voltage winding is provided with a further slotted metallic shielding which is also electrically conductively connected in a manner low in inductance with the shielding electrode (FIG. 2).

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