

Title (en)
HIGH FREQUENCY TRANSFORMER WITH INTEGRATED RECTIFIERS

Title (de)
HOCHFREQUENZTRANSFORMATOR MIT INTEGRIERTEN GLEICHRICHTERN

Title (fr)
TRANSFORMATEUR A HAUTE FREQUENCE A REDRESSEUR INTEGRE

Publication
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Application
EP 01956615 A 20010719

Priority
• FR 0102361 W 20010719
• FR 0009697 A 20000721

Abstract (en)
[origin: US6788184B2] A high frequency transformer may include an integrated rectifier cell with flat windings and/or slotted copper segments stacked on a core branch to provide alternating primary and secondary windings. This reduces inductance leakage and thus increases the operating frequency of the transformer. Rectifying diodes of the rectifier cell may be arranged according to various configurations between the copper segments, and the collection plates may form one of the rectifier outputs. The other output may be provided by connecting all the midpoints of the windings with conductive spacers pressed together along a first axis. The invention is particularly advantageous in static converters, and, more particularly, in spot welding machines, for example.

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CPC (source: EP US)
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