

Title (en)  
CURRENT TRANSFORMER

Title (de)  
STROMWANDLER

Title (fr)  
TRANSFORMATEUR D'INTENSITE

Publication  
**EP 0960425 B1 20050209 (DE)**

Application  
**EP 98912256 A 19980217**

Priority  
• DE 9800466 W 19980217  
• DE 19706127 A 19970217

Abstract (en)  
[origin: DE19706127A1] The invention relates to a current transformer for mains alternating current with direct current components, comprising at least one transformer core (4) with a primary winding (2) and at least one secondary winding (3), whereby a load resistor (5) is parallel connected to the secondary winding and closes the secondary current circuit with a low resistance. A semi-conductor component which is opened and closed within each period over a suitable period of time is provided in the secondary current circuit. The secondary current circuit runs idle during this period of time. This reduces the build up of core magnetization produced by the direct current components so that the transformer core (4) cannot be driven to saturation and the transformer cores do not need to be over-dimensioned.

IPC 1-7  
**H01F 38/32**; **H01F 27/42**

IPC 8 full level  
**H01F 27/42** (2006.01); **H01F 38/32** (2006.01)

CPC (source: EP US)  
**H01F 27/427** (2013.01 - EP US); **H01F 38/32** (2013.01 - EP US)

Cited by  
WO2023076396A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 19706127 A1 19980820**; **DE 19706127 C2 19990909**; DE 59812560 D1 20050317; EP 0960425 A1 19991201; EP 0960425 B1 20050209; US 6028422 A 20000222; WO 9836432 A1 19980820

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**DE 19706127 A 19970217**; DE 59812560 T 19980217; DE 9800466 W 19980217; EP 98912256 A 19980217; US 28471399 A 19990419