

Title (en)  
ACTIVE CURRENT TRANSFORMER

Publication  
**EP 0144347 B1 19861105 (DE)**

Application  
**EP 84901762 A 19840427**

Priority  
DE 3318749 A 19830524

Abstract (en)  
[origin: WO8404849A1] The current transformer provided with a primary winding (1), a secondary winding (2) and a detector winding (3) has a rigid coupling between the secondary winding (2) and the detector winding (3), and yet the coupling coefficient between those windings (2, 3) and the primary winding (1) is well under one, since only a portion of the magnetic flux  $\Phi$  generated by the current  $I_1$  to be measured in the primary winding (1) is detected by the detector winding (3). This partial flux  $\Phi$  is compensated by the flux produced by means of a regulating amplifier arranged in the secondary winding (2).

IPC 1-7  
**H01F 40/06**

IPC 8 full level  
**H01F 38/28** (2006.01); **H01F 27/42** (2006.01)

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

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Cited by  
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**DE 3318749 A 19830524**; DE 3461233 T 19840427; EP 8400126 W 19840427; EP 84901762 A 19840427; JP 50210884 A 19840427; US 84100886 A 19860314