Title (en)

## CURRENT TRANSFORMER WITH INCREASED PRECISION

Publication

EP 0400343 B1 19930714 (DE)

## Application

EP 90108288 A 19900501

Priority

DE 3918100 A 19890602

Abstract (en)

[origin: EP0400343A1] In order to provide a current transformer with increased precision, in which a comparator converter (11; 22) and a power converter (13; 24) are located in series with their primary windings (10, 12; 21, 13) in a main circuit, in which a compensation current of a winding (16; 36) of the comparator converter (11; 22) is supplied from a secondary winding (17; 18) of the power converter (13; 24) in order to reduce the magnetisation of the core of the comparator converter (11; 22), and in which an indicator winding (19; 36) of the comparator converter (11; 22) emits a difference signal corresponding to the remaining magnetic flux, which signal is amplified (at 20; 37) and is supplied as a difference current of another winding (16; 38) of the comparator converter (11; 22), the sum of the compensation current (11; 13) and of the difference current (12; 14) forming the output signal, such that a high precision can be achieved both in the case of alternating current as well as in the case of pulsating direct current, with a cost-effective design, it is proposed that the power converter (24) also transmits a component, corresponding to the direct current component of the main current (Ih), in the first compensation current (I3). <IMAGE>

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