

Title (en)

Differential transformer for electronic protection device

Title (de)

Summenstromwandler für elektronische Schutzgeräte

Title (fr)

Transformateur différentiel pour appareil de protection électronique

Publication

EP 0691662 B1 20010919 (DE)

Application

EP 95109486 A 19950620

Priority

DE 4423622 A 19940706

Abstract (en)

[origin: EP0691662A1] The summing current transformer (1) has a wound closed core (2) of highly permeable soft magnetic material for detecting the sum of the currents which flow through wires (5, 6) which pass through the core. The wires connect the core winding to an amplifier (10) of a protection switch (7). The core is formed without insulating intermediate layers or air gaps which divide up the core cross section. The material of the core comprises a metallic alloy with a content of at least 40% nickel which has a positive temperature coefficient of the electrical resistance.
<IMAGE>

IPC 1-7

H01F 3/08; **H01H 83/14**

IPC 8 full level

H01F 3/08 (2006.01); **H01F 38/22** (2006.01); **H01H 83/14** (2006.01)

CPC (source: EP US)

H01F 3/08 (2013.01 - EP US); **H01F 38/22** (2013.01 - EP US); **H01H 83/144** (2013.01 - EP US)

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DOCDB simple family (publication)

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EP 95109486 A 19950620; DE 4423622 A 19940706; DE 59509601 T 19950620; ES 95109486 T 19950620; US 49889795 A 19950706