

Title (en)  
HYBRID COMPENSATED CURRENT TRANSFORMER

Publication  
**EP 0074297 B1 19851121 (FR)**

Application  
**EP 82401529 A 19820813**

Priority  
FR 8116416 A 19810826

Abstract (en)  
[origin: EP0074297A1] 1. Current sensor (10) for electronically measuring and/or protective equipment intended to control the current in a line (14) of an electrical energy supply system, said inductive sensor coupled with the line and comprising : - a magnetic circuit or core CM enclosing the line (14) and equipped with at least one amagnetic air-gap (12, 12a, 12b) of predetermined length e, said circuit having a reluctance Re, - a secondary winding (16, 16a, 16b) wound about the magnetic circuit CM and having a number of winding turns n and an ohmic resistance R1 , - a load resistance connected electrically to the output terminals of the secondary winding and having an ohmic resistance R2 , characterized in that the inductive sensor (10) is of hybrid type of which the secondary time constant t2 is defined by the relation  $n^2 / Re(R1 + R2)$  having a value comprised between 10 microseconds and 100 milliseconds.

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

IPC 8 full level  
**G01R 15/18** (2006.01); **G01R 15/20** (2006.01); **H01F 38/32** (2006.01)

CPC (source: EP)  
**H01F 38/32** (2013.01); **H01F 2038/305** (2013.01)

Cited by  
GB2201249A; EP0266231A1; FR2603992A1; EP0315207A3; US5127487A

Designated contracting state (EPC)  
BE CH DE GB IT LI NL SE

DOCDB simple family (publication)  
**FR 2512264 A1 19830304; FR 2512264 B1 19831028**; CA 1203284 A 19860415; DE 3267597 D1 19860102; EP 0074297 A1 19830316; EP 0074297 B1 19851121; EP 0074297 B2 19881207; JP H0447271 B2 19920803; JP S5895266 A 19830606

DOCDB simple family (application)  
**FR 8116416 A 19810826**; CA 409402 A 19820813; DE 3267597 T 19820813; EP 82401529 A 19820813; JP 14632482 A 19820825