

Title (en)

Fault-current circuit breaker and magnetic core for a fault-current circuit breaker

Title (de)

Fehlerstromschutzschalter und Magnetkern für einen Fehlerstromschutzschalter

Title (fr)

Disjoncteur de courant et noyau magnétique pour un disjoncteur de courant

Publication

EP 1710812 B1 20080716 (DE)

Application

EP 06003118 A 20060216

Priority

DE 102005009168 A 20050225

Abstract (en)

[origin: EP1710812A1] The breaker has a summation current transformer with a soft magnetic core (2) made of nano-crystalline iron base alloy and with differential windings (4, 5) attached on the core. A relay (3) is connected with a measuring coil (7) of the transformer. The magnetic core exhibits a maximum permeability of more than 350 and a remanence ratio of more than 0.7, where the alloy has a structure, which consists of fine crystalline grains.

IPC 8 full level

H01F 1/153 (2006.01)

CPC (source: EP)

H01F 1/15308 (2013.01); **H01F 1/15333** (2013.01)

Cited by

EP2416329A1; WO2012017421A1; US8699190B2; US10892090B2

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EP 1710812 A1 20061011; **EP 1710812 B1 20080716**; AT E401655 T1 20080815; DE 502006001096 D1 20080828; ES 2308610 T3 20081201; PL 1710812 T3 20081231

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