

Title (en)
Shielding for differential transformer assembly for earth fault circuit breaker

Title (de)
Abschirmung für Summenstrom-Wandleranordnung für Fehlerstrom-Schutzschalter

Title (fr)
Blindage pour dispositif transformateur différentiel pour disjoncteur de défaut à la terre

Publication
EP 0959484 A2 19991124 (DE)

Application
EP 99108970 A 19990506

Priority
DE 19822515 A 19980519

Abstract (en)
A summation current transformer arrangement for a primary current lead includes a toroidal core (14) with secondary winding (16), in which the toroidal core and secondary winding are arranged within a screen (140) made of high-permeability material, the screen being slotted (141). For alternating current (AC) drive, the effective active screening factor is increased by selection of a material for the screening, which in addition is also electrically of high resistance. More specifically, the screening consists of a high permeability, sintered material.

Abstract (de)
Summenstrom-Wandleranordnung für insbesondere Fehlerstrom-Schutzschalter mit verbesserter Abschirmung (148) gegen insbesondere Dipolanteile des magnetischen Wechselfluß-Feldes der Primärstromleitung. Ausführung der Abschirmung aus elektrisch hochohmigem Material oder aus Material mit bemessener Dicke als mehrschalige oder geblechte Abschirmung. <IMAGE>

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H01H 83/14

IPC 8 full level
H01H 83/14 (2006.01)

CPC (source: EP)
H01H 83/144 (2013.01)

Cited by
EP1696444A3; CN110534909A; EP1736784A1; FR2887634A1; US7696846B2; EP1696444A2; US7567074B2; WO2005006371A1

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