

Title (en)  
FAULT-CURRENT PROTECTION DEVICE WITH AN OVERLOAD PROTECTION DEVICE

Title (de)  
FEHLERSTROM-SCHUTZEINRICHTUNG MIT ÜBERLASTSCHUTZ

Title (fr)  
DISPOSITIF DE PROTECTION CONTRE LES COURANTS DE DÉFAULT ET DE SURINTENSITÉ

Publication  
**EP 1114496 A1 20010711 (DE)**

Application  
**EP 99953712 A 19990903**

Priority  
• DE 9902799 W 19990903  
• DE 19842470 A 19980916

Abstract (en)  
[origin: DE19842470A1] An earth-leakage circuit-breaker includes a fault-current release circuit (4) containing a mains voltage independent summation current transformer (2), and a mains current supplied overload release circuit (10). The fault current release circuit (4) and the overload release circuit (10) contains a common release relay (7) for actuating a switch mechanism (8), switching a network of conductors (LN). The overload release circuit (10) specifically comprises an evaluation circuit (14), connected to a temperature sensor (16) as well as being connected in series with a threshold circuit (17), and is used for ascertaining the load condition.

IPC 1-7  
**H02H 3/10**

IPC 8 full level  
**H02H 3/10** (2006.01); **H02H 3/08** (2006.01); **H02H 3/33** (2006.01); **H02H 5/04** (2006.01)

CPC (source: EP US)  
**H02H 3/105** (2013.01 - EP US); **H02H 3/085** (2013.01 - EP US); **H02H 3/33** (2013.01 - EP US); **H02H 5/042** (2013.01 - EP US)

Citation (search report)  
See references of WO 0016459A1

Designated contracting state (EPC)  
AT DE FR IT

DOCDB simple family (publication)  
**DE 19842470 A1 20000323**; EP 1114496 A1 20010711; US 6697244 B1 20040224; WO 0016459 A1 20000323

DOCDB simple family (application)  
**DE 19842470 A 19980916**; DE 9902799 W 19990903; EP 99953712 A 19990903; US 78663101 A 20010307