

Title (en)
INTERFACE HAVING EARTH FAULT CURRENT

Title (de)
SCHNITTSTELLE MIT ERDSCHLUSSSTROM

Title (fr)
INTERFACE À COURANT DE DÉFAUT À LA TERRE

Publication
EP 2932572 A4 20160831 (FR)

Application
EP 13859684 A 20131107

Priority
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Abstract (en)
[origin: WO2014086378A1] The invention concerns an interface for cutting off the power supply for any fault current $I_d \leq 300$ milliamperes such that: $I_d \geq I_{PE} + k \cdot I_h$ where I_{PE} represents the current returning to the power source via the protective conductor connecting the exposed conductive parts to earth and I_h (≤ 10 or 30 milliamperes) represents the current returning to the power source by means other than via the protective conductor or via an active conductor. Current I_h is therefore likely to travel through a person. In this way, the interface protects people and property against ground insulation faults and against certain direct contacts independently of the earth of the exposed conductive parts and of external conditions. It also protects people in the event of a failure in the protection of an area using the same earth in case of a fault.

IPC 8 full level
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H02H 3/162 (2013.01 - US); **H02H 3/44** (2013.01 - US)

Citation (search report)
• [XA] US 4138707 A 19790206 - GROSS THOMAS A O
• [A] US 3976918 A 19760824 - CLARK WILLIAM R
• [A] FR 2538179 A1 19840622 - MERLIN GERIN [FR]
• [A] WO 03001641 A2 20030103 - ABB SERVICE SRL [IT], et al
• [A] FR 2454198 A2 19801107 - OSMOND MAX
• See references of WO 2014086378A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014086378 A1 20140612; AU 2013354545 A1 20150723; AU 2013354545 B2 20171019; CA 2894443 A1 20140612;
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JP 2016500461 A 20160112; JP 6367218 B2 20180801; KR 20150119843 A 20151026; MA 38243 A1 20160729; MA 38243 B1 20170228;
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