

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 A1 20151021 (FR)**

Application  
**EP 13859684 A 20131107**

Priority  
• DZ 120838 A 20121209  
• DZ 2013000006 W 20131107

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  $I_h$  ( $\leq 10$  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.

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