

Title (en)  
DEVICE FOR SWITCHING OFF A MEDIUM-VOLTAGE ELECTRICAL CIRCUIT

Title (de)  
VORRICHTUNG ZUR UNTERBRECHUNG EINES MITTELSPANNUNGSSTROMKREISES

Title (fr)  
DISPOSITIF DE COUPURE D'UN CIRCUIT ÉLECTRIQUE DE MOYENNE TENSION

Publication  
**EP 4123676 B1 20230906 (FR)**

Application  
**EP 22182272 A 20220630**

Priority  
FR 2108042 A 20210723

Abstract (en)  
[origin: US2023025832A1] A method for determining an operational status of a switching device for switching an electrical unit including a first circuit and a second circuit, each circuit respectively including: a vacuum breaker including a fixed electrode and a mobile electrode; and a control device connected to the mobile electrode via an elastic device. The method including: for each of the first and second circuits, determining a transition instant at which the mobile electrode comes into contact with the fixed electrode; determining a difference between the transition instant of the first vacuum breaker and the transition instant of the second vacuum breaker; determining that the operational status is a first status known as "nominal synchronization" if the difference is less than a threshold; and determining that the operational status is a second status known as "abnormal synchronization" if the difference is greater than the threshold.

IPC 8 full level  
**H01H 1/00** (2006.01); **H01H 11/00** (2006.01); **H01H 33/59** (2006.01); **H01H 33/666** (2006.01)

CPC (source: EP US)  
**H01H 1/0015** (2013.01 - EP US); **H01H 11/0062** (2013.01 - EP); **H01H 33/59** (2013.01 - EP); **H01H 33/666** (2013.01 - EP US); **H01H 71/04** (2013.01 - US); **H01H 2071/044** (2013.01 - US)

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**EP 4123676 A1 20230125; EP 4123676 B1 20230906**; CN 115692053 A 20230203; FR 3125655 A1 20230127; US 12051553 B2 20240730; US 2023025832 A1 20230126

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