

Title (en)  
LOW COST ELECTRICAL CIRCUIT BREAKER LOCATER WITH PASSIVE TRANSMITTER AND RECEIVER

Title (de)  
ELEKTRISCHER SCHUTZSCHALTER-ORTUNGGERÄT MIT PASSIVEM SENDER UND EMPFANGER

Title (fr)  
COUPE-CIRCUIT ELECTRIQUES LOCALISES A L'AIDE D'UN EMETTEUR PASSIF ET D'UN RECEPTEUR

Publication  
**EP 1127279 A4 20020703 (EN)**

Application  
**EP 99960191 A 19991102**

Priority  
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• US 10680798 P 19981103

Abstract (en)  
[origin: WO0026679A1] A system for locating a circuit interrupter, e.g. a circuit breaker, associated with a selected branch circuit (40-45) from amongst a plurality of circuit interrupting devices, CB1-CB6. The system includes a receiver (300) and a passive transmitter (100). The passive transmitter (100) when electrically connected to a branch circuit creates a current spike signal on that circuit at a predetermined frequency. This current spike signal has a sufficiently short spike duration so as to only generate a weak electromagnetic field about the circuit wire, which in turn, substantially minimizes the development of a sympathetic signal on other branch circuits adjacent to the selected branch circuit. Thus, the true current spike signal is easily distinguishable from any sympathetic signals. Accordingly, the receiver (300) can be broadly tuned about the predetermined frequency of the current spike signal and drives a user-perceivable signaling device upon sensing the current spike signal. A method for locating a circuit interrupter is also disclosed.

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