

Title (en)

DETECTION OF ARCING IN DC ELECTRICAL SYSTEMS

Title (de)

ERKENNUNG DER BOGENBILDUNG IN ELEKTRISCHEN GLEICHSTROMSYSTEMEN

Title (fr)

DETECTION DE PRODUCTION D'ARC ELECTRIQUE DANS DES SYSTEMES ELECTRIQUES C.C.

Publication

**EP 1428303 A2 20040616 (EN)**

Application

**EP 01990886 A 20011109**

Priority

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Abstract (en)

[origin: WO0239561A2] Arcing faults in dc electric power systems are detected by apparatus which responds to a predetermined drop either in voltage across, or current drawn by, a dc load. The voltage and current drops can be measured values or scaled to the source voltage. In another arrangement, the load current is interrupted momentarily when a step decrease in current is detected. If the dc current does not return, within a predetermined margin, to the decreased value before interruption, arcing is indicated. In a third embodiment, drift of the load current following detection of a step decrease, either upward toward a short or downward toward an open circuit, is taken as an indication of arcing.

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IPC 8 full level

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