

Title (en)
DEVICE FOR DETECTING CONTACT WEAR IN SWITCHING APPLIANCES

Title (de)
VORRICHTUNG ZUM ERFASSEN VON KONTAKTABBRAND IN SCHALTGERÄTEN

Title (fr)
DISPOSITIF POUR DETECTER L'USURE DE CONTACTS DANS DES APPAREILS DE COMMUTATION

Publication
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Application
EP 04786837 A 20040917

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Abstract (en)
[origin: WO2005031774A1] The invention concerns a device for detecting wear of switching contacts (K1,K1') in an electric switch appliance (S), the wear of the contacts being caused at least at a pair of switching contacts appliances (K1,K1') which open and close in the switching appliance (S). The inventive device comprises a lightwave guide (LWL) and a detector (D), a light exiting from at least one light source (Q) being capable of being injected into the lightwave guide (LWL) and guided by said lightwave guide (LWL) up to the detector (D). The lightwave guide (LWL) is arranged relative to the pair(s) of switching contacts (K1,K1'), such that the intensity of the light injected in the lightwave guide (LWL), which is measured by the detector, decreases in the switching appliance (S) as the number of wear particles of contacts generated by the wear of the contacts increases.

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