

Title (en)

SECURITY DEVICE WITH TEMPERATURE ACTIVABLE POLYMERIC LAYER

Title (de)

SICHERHEITSVORRICHTUNG MIT TEMPERATURAKTIVIERBARER POLYMERSCHICHT

Title (fr)

DISPOSITIF DE SECURITE A COUCHE POLYMERE ACTIVABLE A UNE TEMPERATURE SPECIFIEE

Publication

EP 1753915 B1 20071205 (EN)

Application

EP 05750378 A 20050609

Priority

- GB 2005002283 W 20050609
- GB 0412981 A 20040610

Abstract (en)

[origin: GB2414962A] Security device 10 has layers 12,15 of a copolymer which switches from opaque to transparent at a specified activation temperature. These layers comprise a hard segment and a crystallisable soft segment or at least one soft segment which is crosslinked and contains a crystallisable soft segment. The device may include demetallised indicia 14 in metal layer 13. The layers 12,15 are opaque at temperatures below the activation temperature (preferably 35-37 {C) and switch to become transparent when warmed above it, revealing the indicia 14. The polymers may be oligomers. Adhesive layers 16 bond the device as a thread 17 on to a substrate from which a secure document 11 is made. Alternatively, the device may overlay an optically variable feature (30, figure 13) which becomes visible through the polymeric film 12 above the activation temperature.

IPC 8 full level

D21H 21/42 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP GB US)

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