

Title (en)  
SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF

Title (de)  
SICHERHEITSVORRICHTUNGEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
DISPOSITIFS DE SÉCURITÉ ET LEURS PROCÉDÉS DE FABRICATION

Publication  
**EP 3445592 B1 20211110 (EN)**

Application  
**EP 17719686 A 20170418**

Priority  
• GB 201606723 A 20160418  
• GB 2017051075 W 20170418

Abstract (en)  
[origin: GB2549481A] A method of manufacturing a security device (e.g. for banknote or passport), having a relief structure (e.g. a hologram) located in a window section of the device, thus allowing it to be observed from both sides of the device; it comprises the steps: (a) providing a first layer 2b comprising at least a partially translucent or transparent region; (b) applying a pattern defining substance 6 on the first transparent layer, excluding at least one first region (R1, figure 1) on the surface of the first layer aligned with the translucent or transparent region; (c) applying a formable material 3 to a second region of the first surface; (d) forming the formable material (e.g. by embossing) such that its surface distal from the first layer follows the contours of a first optically variable effect generating relief structure in the window region; and (e) applying a reflection enhancing material (e.g. a metal or alloy) over the formable material to form a reflection enhancing layer which follows the contour of the relief structure; subsequently the pattern defining material will be removed (e.g. by washing) including all material overlapping it, thereby limiting the reflection enhancing layer to the relief structure.

IPC 8 full level  
**B42D 25/425** (2014.01); **B42D 25/324** (2014.01); **B42D 25/328** (2014.01); **B42D 25/351** (2014.01); **B42D 25/373** (2014.01);  
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**B42D 25/425** (2014.10 - EP GB); **B42D 25/445** (2014.10 - EP); **B42D 25/45** (2014.10 - EP)

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