

Title (en)  
MULTI-LAYERED PRINTABLE IDENTITY CARD AND METHOD FOR ITS MANUFACTURE

Publication  
**EP 0308904 B1 19920610 (DE)**

Application  
**EP 88115505 A 19880921**

Priority  
DE 3731853 A 19870922

Abstract (en)  
[origin: JPH01141095A] PURPOSE: To enable writing having forgery preventing capacity by simple constitution and to enable an individual writing mode by a laser method by generating air bubbles in a plastic material used in a card by the action of laser and ensuring sufficient embossed height in order to perform the clear stamping of a character and deforming the main body of the card. CONSTITUTION: An identity card consists of an opaque core layer 22 and transparent covers 23, 24 and the core layer 22 has printing patterns 25, 26 provided on one side or both sides thereof and also has safety ensuring characteristics and plays the role for protecting a safety ensuring groove, see-through pattern type appearance and the forgery of a card structure. In the formation of this card, data is applied to the card composed of plastic by laser and an embossed character 28 is recorded within a flat high order region 21. Laser beam 29 is guided to flat high order parts 21a, 21b and recording parameters such as intensity, a scanning speed, pulse frequency or the like are properly selected and the max. air bubbles 30 are formed. This foamed region is limited to a local place and an increase in vol. of about 30% is reflected to a change of the corresponding thickness and excellent printing quality is obtained.

IPC 1-7  
**B42D 15/02**

IPC 8 full level  
**B29C 59/16** (2006.01); **B29C 59/00** (2006.01); **B29C 59/02** (2006.01); **B42D 15/02** (2006.01); **B42D 25/00** (2014.01); **B42D 25/41** (2014.01); **G06K 19/10** (2006.01)

CPC (source: EP US)  
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