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Personalization Of Card By Engraving Revealing Core Card Material

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Personalization of card by engraving revealing core card material

INVENTION:

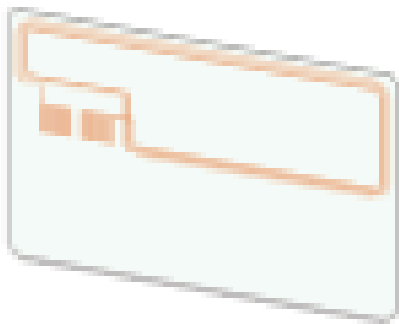
Metal cards engraving are made by only metal inside on full area of inlay cards. Such cards are heavy due to metal and uniform due to the unique material used inside inlay.

The idea of this invention is to have a card, which is not necessary heavy, comprising multi material inside inlays. Said material can be for example wood, metal, stone, glass, or the same material with different color. Many types of metal can be used, such as for example copper, aluminum, stainless steel and so on.

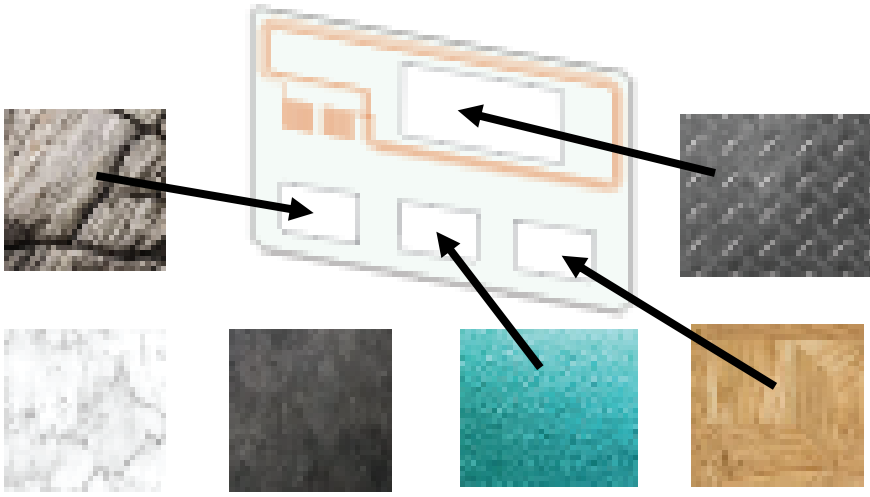
Different materials are localized in different inlay such that, by ablating a core layer at different locations, different materials appear.

An example of a process implementing this invention is described below.

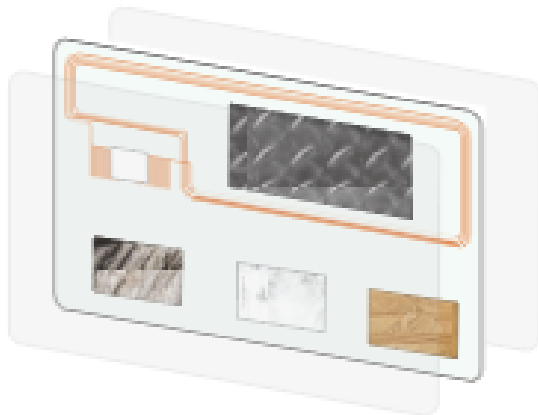
- **STEP 1: INLAY**
 - standard plastic inlay with or without electronic antenna



- punching inlays with shapes to introduce material needed at the placement needed for engraving front and/or rear card.

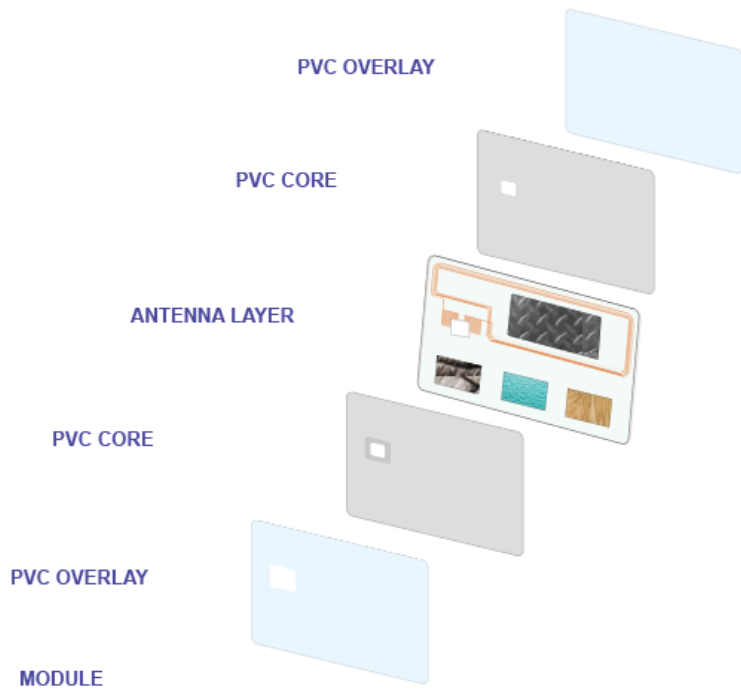


- placement of materials parts and lamination of inlay with adhesives layers



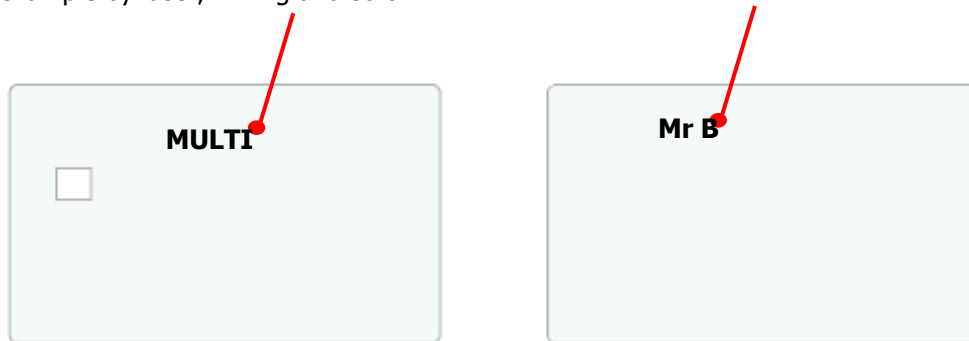
- **STEP 2 : CARD**

Lamination of core structure with other layers



- **STEP 3: ENGRAVING**

Engraving the front and/or rear core layers to reveal the material inside. The engraving can be realized for example by laser, milling and so on.



- **STEP 4: FINAL PRODUCT**

Here below cards with four different material inside inlay and engraved on both side of card.

- metal
- stone
- blue glass
- wood



Advantages:

- If there is only a small part to engrave, it is possible to add inside the inlay a small part of material
- If there is a need for further colors to be revealed after engraving, it is possible to add different materials inside inlays,
- By using a cards with multi material in core, it is possible to have multi design of engraving (metal, stone, copper color, wood,...),
- With this technique, there is no need to use a Heavy card in order to obtain an engraved card.