

Title (en)

METHOD FOR MANUFACTURING A CARD BODY, CARD BODY, SEPARATING TOOL AND APPARATUS FOR MANUFACTURING A CARD BODY

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES KARTENKÖRPERS, KARTENKÖRPER, TRENNUNGSWERKZEUG UND VORRICHTUNG ZUR HERSTELLUNG EINES KARTENKÖRPERS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CORPS DE CARTE, CORPS DE CARTES, OUTIL DE SÉPARATION ET APPAREIL DE FABRICATION D'UN CORPS DE CARTE

Publication

**EP 3695981 B1 20211110 (EN)**

Application

**EP 20020084 A 20190118**

Priority

- DE 102018000630 A 20180126
- EP 19000032 A 20190118

Abstract (en)

[origin: EP3517311A2] The invention relates to a method for manufacturing a multilayer card body (1), in particular for a portable data carrier, with improved properties in that the side surface of the card body is sealed during separation or after it has been separated from a laminated sheet. Further, the invention relates to a card body (1), manufactured according to the method. Besides, the invention relates to a corresponding separating tool (20). Moreover, the invention relates to an apparatus for manufacturing a multilayer card body (1). The method comprises laminating together at least two layers (2, 4) to form a laminated sheet, separating the multilayer card body from the laminated sheet, eg by cutting, milling or punching out. The sealing can be carried out by heating, eg by ultrasonic waves, by destroying and, thereby, activating capsules (14) containing adhesive, by applying a sealing material (30) to the side surface (10), wherein the sealing means (30) is an adhesive, a varnish or a solvent, by subjecting the side surface (10) to UV radiation (50) or IR illumination (60), by subjecting the side surface (10) to laser radiation (70), or by using mechanical or laser engrailed edges or micro-structuring. The separating tool (20) can be heated so as to cut and heat-seal at the same time.

IPC 8 full level

**B42D 25/45** (2014.01); **B42D 25/36** (2014.01); **B42D 25/47** (2014.01); **B42D 25/475** (2014.01)

CPC (source: EP)

**B42D 25/36** (2014.10); **B42D 25/45** (2014.10); **B42D 25/47** (2014.10); **B42D 25/475** (2014.10)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3517311 A2 20190731**; **EP 3517311 A3 20190828**; **EP 3517311 B1 20211110**; EP 3695981 A1 20200819; EP 3695981 B1 20211110; ES 2900069 T3 20220315; ES 2902355 T3 20220328

DOCDB simple family (application)

**EP 19000032 A 20190118**; EP 20020084 A 20190118; ES 19000032 T 20190118; ES 20020084 T 20190118