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(54) **Method of producing a photograph album**

Photoalbum-Herstellungsverfahren

Méthode de fabrication d'un album de photos

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(56) References cited:
DE-A- 2 816 535 **DE-U- 7 704 878**
US-A- 1 539 592 **US-A- 5 156 419**

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specification

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Description

[0001] The invention relates to a method of producing a photograph album, comprising:

- supplying a straight web of album board,
- making a first perforation at a distance of 1 to 2 cm from a longitudinal edge of the web of board,
- making a second perforation at a distance of 1 to 2 cm from the said first perforation,
- making a means of folding at a small distance from the said second perforation,
- cutting the web of album board into pages,
- gluing a sheet of glassine to each page of album board by means of a narrow strip of adhesive in the region of the second perforation,
- folding the pages of album board in a zigzag manner along the two perforations, and
- combining a predetermined number of pages to form a book and joining these pages together by gluing or by means of punched holes and pins,

[0002] Such a method could be carried out by an apparatus called "system-fotoblock automat FAM610-S", which apparatus was put upon the market in the nineteen-eighties by the firm jos.hunkeler AG in Winkeln, Switzerland. Advantages of a photograph album produced by this known method are that the pages of the album when they are turned, and do not tend to close again as a result of bulging or the like, and that the album has approximately the same thickness over the entire width in the state in which photographs are mounted on its pages. The folding means are formed by a folding line having a board thickness smaller than the remaining part of the album board. Folding a page in the prepared photograph album so that that page lies flat on an other page, needs some manual pressing when the album is new.

[0003] The object of the invention is to improve the simplicity of folding of each page in the prepared photograph album so that manual pressing is not necessary even when the album is brand new.

[0004] To this end, according to the invention the means of folding is made by cutting a strip out of the board of the web of board and covering the gap formed on both sides with a tape.

[0005] The tapes can consist of paper provided with a layer of adhesive, but they can also be made up of a PVC-based material.

[0006] Preferably the folding is made at 1.8-1.9 cm from the second perforation.

[0007] The invention will now be explained in more detail with reference to the figures.

[0008] Figure 1 shows a diagrammatic illustration in perspective of a method for producing a photograph album.

[0009] Figure 2 shows a side view of two pages which have been laid on top of one another during the produc-

tion phase depicted in Figure 1.

[0010] Figure 3 shows a perspective view of a book which has been produced in accordance with the present invention, a portion of the album has been cut away.

[0011] Illustrated in Figure 1 is a section of a long web 1 of album board, which has been unwound from a stock roll (not shown), bent back and given a certain tensioning by means of a belt mechanism (not shown). A first perforation 4 is made from the underside by means of a wheel 2 provided with cutting teeth and a mating wheel 3, at a distance of approx. 1.5 cm from a longitudinal edge of the web of board. A second perforation 5 is made at approx. 1.5 cm from the first perforation 4 by means of a wheel 6 provided with cutting teeth and a mating wheel 7, this time from the top side. A sheet 12 is glued to each sheet 11 by means of a narrow strip of adhesive 13, which is applied on or at a small distance from the inner side of the second perforation 5.

[0012] The album board is folded to form a zigzag element 14 along the two perforations 4 and 5.

[0013] A predetermined number of pages obtained in this way is combined to form a book, the zigzag elements being positioned on top of one another. The two endpapers 18 are added.

[0014] The pages of the book are glued by a cold-gluing method. The zigzag elements 14 are in this case held in the form of a fan and adhesive which is applied to the spine of the book will, as shown in Figure 3, penetrate between the zigzag elements 14 over a distance of approx. 1 to 2 mm.

[0015] The zigzag elements 14 are clamped on top of one another and textile gauze is arranged on the spine of the book obtained in this manner, and a reinforcement 16, usually consisting of crêpe paper, is then glued on using a hotmelt-adhesive method, as is a so-called textile headband 17 on the top side and the underside.

[0016] Finally, the endpapers 18 are glued to the inner surfaces of the hard cover 19.

A narrow strip (for example 7 mm wide) is cut out of the board using a double-action cutter 20, as a result of which a gap 21 is formed. This gap is covered at the top and at the bottom by a tape 22. The simplicity of folding (hinging) of each page in the prepared photograph album takes place automatically at the location of the tapes.

[0017] Two hotmelt adhesive strips 23, 24 are positioned on the webs of board: one (23) on the top side and one (24) on the underside of the web.

[0018] After having folded the zigzag elements 14, combined the pages 11 to form a book and attached the endpapers 18, the hotmelt adhesive is thermally activated, as a result of which the zigzag elements 14 are bonded together initially. The cold gluing then takes place so as to implement a second adhesive bond.

[0019] The tapes 22 may consist of paper or PVC.

[0020] If a loose-leafed reporting version is to be made, the glassine 12 is glued on and, in the manner

described above, zigzag elements 14 are folded by means of perforations 4 and 5, and a strip is cut out, which is covered by two tapes 22. Finally, punched holes are made by means of a rotating punch. Gluing is thus omitted.

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Claims

1. Method of producing a photograph album, comprising:

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- supplying a straight web of album board,
- making a first perforation at a distance of 1 to 2 cm from a longitudinal edge of the web of board,
- making a second perforation at a distance of 1 to 2 cm from the said first perforation,
- making a means of folding at a small distance from the said second perforation,
- cutting the web of album board into pages,
- gluing a sheet of glassine to each page of album board by means of a narrow strip of adhesive in the region of the second perforation,
- folding the pages of album board in a zigzag manner along the two perforations, and
- combining a predetermined number of pages to form a book and joining these pages together by gluing or by means of punched holes and pins,

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characterised in that the means of folding is made by cutting a strip out off the web of board and covering the gap formed on both sides with a tape.

2. Method according to Claim 1 or 2, **characterized in that** the said means of folding is made at 1.8-1.9 cm from the second perforation.

Patentansprüche

1. Verfahren zum Herstellen eines Fotoalbums, das die folgenden Schritte aufweist:

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- Zuführen einer geraden Bahn von Albumkarton,
- Herstellen einer ersten Perforation in einem Abstand von 1 bis 2 cm von einem Längsrand der Kartonbahn,
- Herstellen einer zweiten Perforation in einem Abstand von 1 bis 2 cm von der ersten Perforation,
- Herstellen einer Falteinrichtung in einem geringen Abstand von der zweiten Perforation,
- Schneiden der Albumkartonbahn zu Seiten,
- Aufkleben einer Pergaminfolie auf jede Albumkartonseite mit Hilfe eines schmalen Klebstoff-

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- streifens in der Zone der zweiten Perforation, zickzackförmiges Falten der Albumkartonseiten entlang den beiden Perforationen und
- Vereinigen einer vorbestimmten Anzahl von Seiten zur Bildung eines Buchs und Verbinden dieser Seiten miteinander durch Verkleben oder durch Stanzlöcher und Stifte,

dadurch gekennzeichnet, daß die Falteinrichtung durch Ausschneiden eines Streifens aus der Kartonbahn und beidseitiges Abdecken des gebildeten Ausschnitts mit einem Band hergestellt wird.

2. Verfahren nach Anspruch 1, **dadurch gekennzeichnet, daß** die Falteinrichtung in einem Abstand von 1,8 bis 1,9 cm von der zweiten Perforation hergestellt wird.

Revendications

1. Procédé de fabrication d'un album de photographies, comprenant les étapes consistant à :

- mettre en oeuvre un lé rectiligne de carton pour album,
- réaliser une première perforation à une distance de 1 à 2 cm d'un bord longitudinal du lé de carton,
- réaliser une seconde perforation à une distance de 1 à 2 cm de ladite première perforation,
- réaliser un moyen de pliage à une faible distance de ladite seconde perforation,
- découper le lé de carton pour album en pages,
- coller une feuille de papier cristal sur chaque page en carton pour album au moyen d'une bande étroite d'adhésif dans la zone de la seconde perforation,
- plier en zigzag les pages en carton pour album suivant les deux perforations, et
- réunir un nombre prédéterminé de pages pour former un volume et assembler ces pages par collage ou au moyen de trous poinçonnés et de broches,

caractérisé en ce que le moyen de pliage est réalisé en découpant une bande dans le carton du lé de carton et en recouvrant le jour ainsi formé avec un ruban appliqué de part et d'autre.

2. Procédé selon la revendication 1 **caractérisé en ce que** ledit moyen de pliage est réalisé à une distance de 1,8 à 1,9 cm de la seconde perforation.

