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(54) Book-binding structure

Buchbindestruktur

Structure de reliure

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Description

This invention relates to a book-binding structure suitable for binding a relatively small number of sheets of paper into a book type printed material such as a calendar.

A book type calendar is made up of a relative small number (e.g. seven or 13 including the cover) of sheets of paper.

Thus, when forming a book type calendar, it is impossible to securely bind such a small number of sheets by what is known as "back gluing". The sheets of paper had to be bound together with a metal binder attached to the top edges of the sheets.

New year's calendars become practically worthless some time after the new year has begun. Thus, manufacturers of such book type calendars have to dispose of a vast number of calendars at the beginning of every year.

If the sheets of paper forming such book type calendars can be recycled instead of disposing of them, it is possible to greatly save paper resources.

In order to recycle the sheets of paper forming book type calendars, the metal binders used to bind the top edges of the sheets have to be removed.

But since it takes a lot of time and money to remove such metal binders from each and every book type calendar, such calendars were heretofore disposed of by burning. Precious paper resources were thus wasted to ashes.

Metal binders also have the drawback that when people handle them carelessly, they may hurt their hands.

DE-A-2126495 and US-A-3025082 disclose a book-binding structure according to the precharacterizing part of claim 1.

It is an object of this invention to provide a book-binding structure which can securely bind even a relatively small number of sheets of paper together without the need of a metal binder and which is safe to handle.

It is an further object of the invention to provide a new and improved structure, wherein a back cover can easily be bonded to the sheets.

This object is achieved by book-binding structure according to claim 1.

The book-binding structure for binding a plurality of sheets of paper according to this invention comprises a plurality of through holes formed in each of the sheets of paper along top edge thereof, the through holes in each sheet of paper being aligned with the through holes in the other sheets, and an adhesive poured into the through holes to bind the sheets of paper together.

When the adhesive poured into the through holes formed in the sheets hardens, it will act like support pillars, thus securely binding the sheets of paper together.

According to this invention, even a relatively small number of sheets of paper can be bound together into a book type calender or the like without using a metal binder.

Since no metal binder is used, the sheets of paper forming calendars or the like are recyclable. Thus, it is possible to save a great deal of paper resources.

Also, a book type printed material that uses no metal binder is safe to handle.

Other features and objects of the present invention will become apparent from the following description made with reference to the accompanying drawings, in which:

Fig. 1 is a perspective view of a book type calender having the book-binding structure according to this invention;
Fig. 2 is a partial front view of the same;
Fig. 3 is a partial vertical sectional perspective view of the same; and
Fig. 4 is a partial vertical sectional perspective view of the same as seen from back.

Figs. 1-4 show one embodiment of this invention.

Fig. 1 shows a book type calendar comprising six sheets of paper 1 bound together. Each sheet 1 is formed along its top edge with a plurality of through holes 2 that are aligned with the holes 2 formed in the other sheets 1. According to the present invention, the sheets 1 are bound together by pouring an adhesive 3 into the holes 2.

The adhesive 3 may be a hot-melt type thermoplastic resin adhesive.

A back cover 4, made of cardboard or the like, is applied around the top edges of the six sheets 1 thus bound together and bonded to them. The adhesive 3 may be poured into the holes 2 in such an amount that it will partially overflow from the holes 2 on both sides. Thus, the back cover 4 can be bonded to the sheets with the adhesive that overflowed from the holes 2.

Each sheet 1 has perforations 5 as a tear-off line near its top edge.

On the back of the back cover 4 is provided a hook 6 for hanging the calendar, which is formed by cutting and raising a part of the back cover 4.

Claims

1. A book-binding structure for binding a plurality of sheets of paper into a book type calendar or the like, said structure comprising a plurality of through-holes (2) formed in each of said sheets of paper (1) along a top-edge thereof, said through-holes (2) in each sheet of paper being aligned with the through-holes (2) in the other sheets (1), wherein a bonding means is poured into said through-holes (2) to bind said sheets of paper together,
   characterized in that

   said bonding means is an adhesive, and
   a back-cover (4) is bonded to the sheets of

paper (1) with an adhesive over-flowing from the through-holes (2).

Patentansprüche

1. Buchbindestruktur zum Binden einer Vielzahl von Papierbögen zu einem buchartigen Kalender oder dergleichen, wobei die Struktur eine Vielzahl von Durchgangslöchern (2) aufweist, die in jedem der Papierbögen (1) entlang seines oberen Randes gebildet sind, und die Durchgangslöcher (2) in jedem Papierbogen mit den Durchgangslöchern (2) in den anderen Bögen (1) ausgerichtet sind, wobei ein Bindemittel in die Durchgangslöcher (2) gegossen wird, um die Papierbögen miteinander zu verbinden,
dadurch gekennzeichnet, daß

   das Bindemittel ein Klebstoff ist, und
   eine Rückenabdeckung (4) mit den Papierbögen (1) verbunden wird, mit aus den Durchgangslöchern (2) überlaufendem Klebstoff.

Revendications

1. Structure de reliure pour relier une pluralité de feuilles de papier en un calendrier du type livre ou analogue, ladite structure comprenant une pluralité de trous de passage (2) formés dans chacune desdites feuilles de papier (1) selon un bord supérieur de ces-dernières, lesdits trous de passage (2) dans chaque feuille de papier étant alignés avec les trous de passage (2) dans les autres feuilles (1), et un moyen de bondage étant versé dans lesdits trous de passage (2) afin de relier lesdites feuilles de papier,
caractérisée en ce que

   ledit moyen de bondage est un adhésif, et
   une couverture de dos (4) est bondée auxdites feuilles de papier (1) avec un adhésif débordant à partir desdits trous de passage (2).

FIG. 1

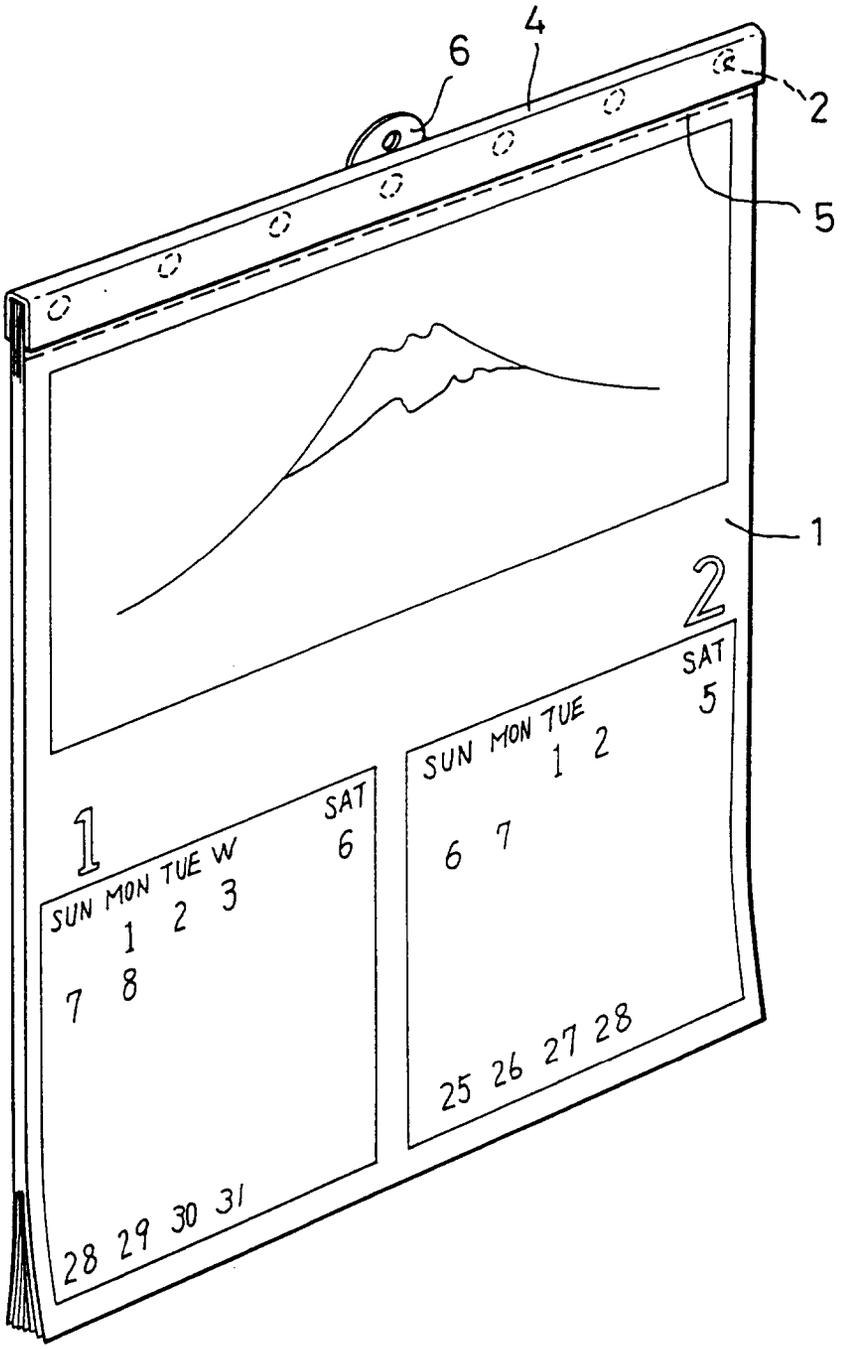
6
4
2
5
1
2
SAT
5
SUN MON TUE
1 2
6 7
25 26 27 28
1
SAT
6
SUN MON TUE W
1 2 3
7 8
28 29 30 31

FIG. 2

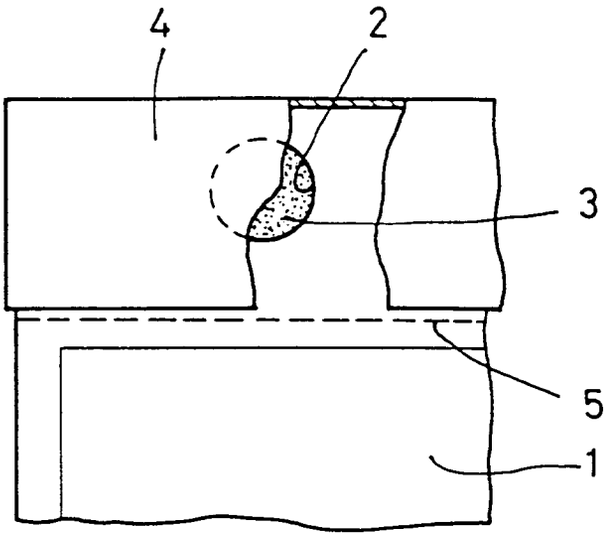

FIG. 3

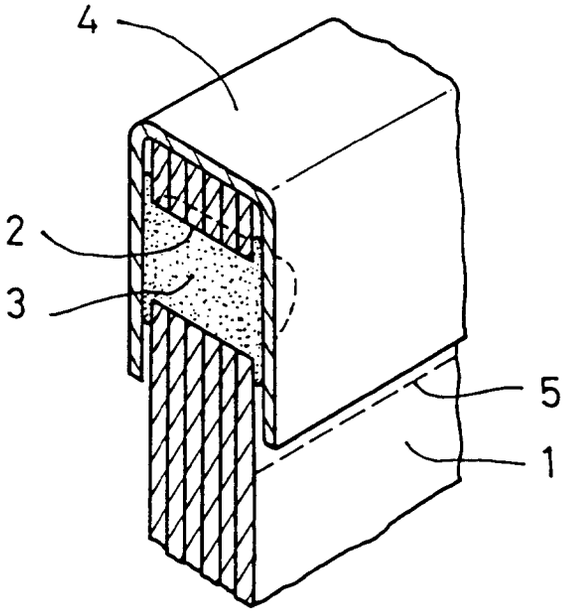

FIG. 4