June 11, 1935. M. WOLFSON 2,004,482

BOOKBINDING

Filed Dec. 18, 1933 2 Sheets-Sheet 1

Fig. 1.

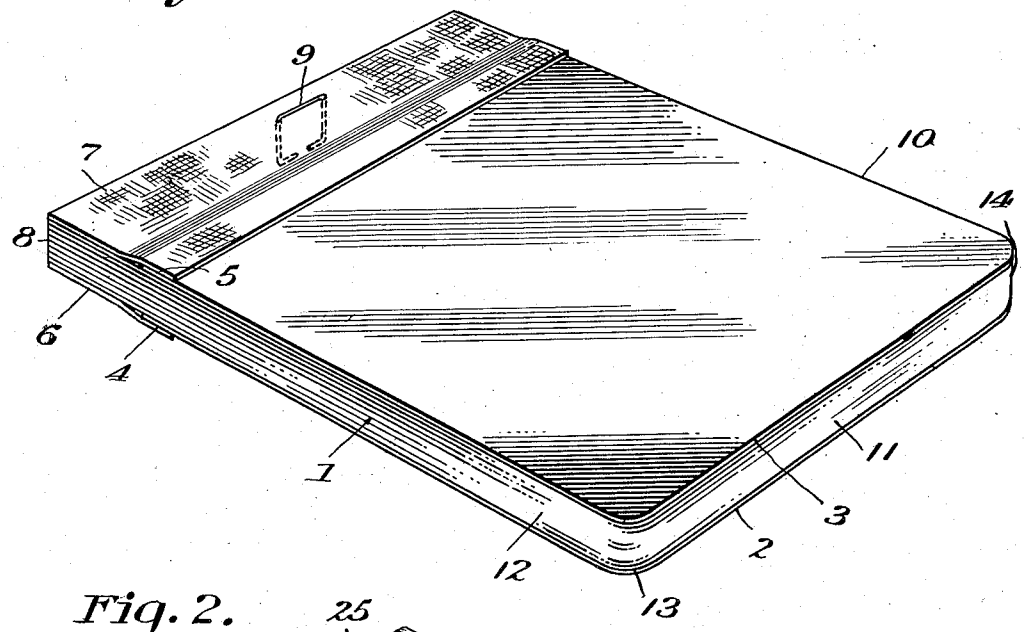
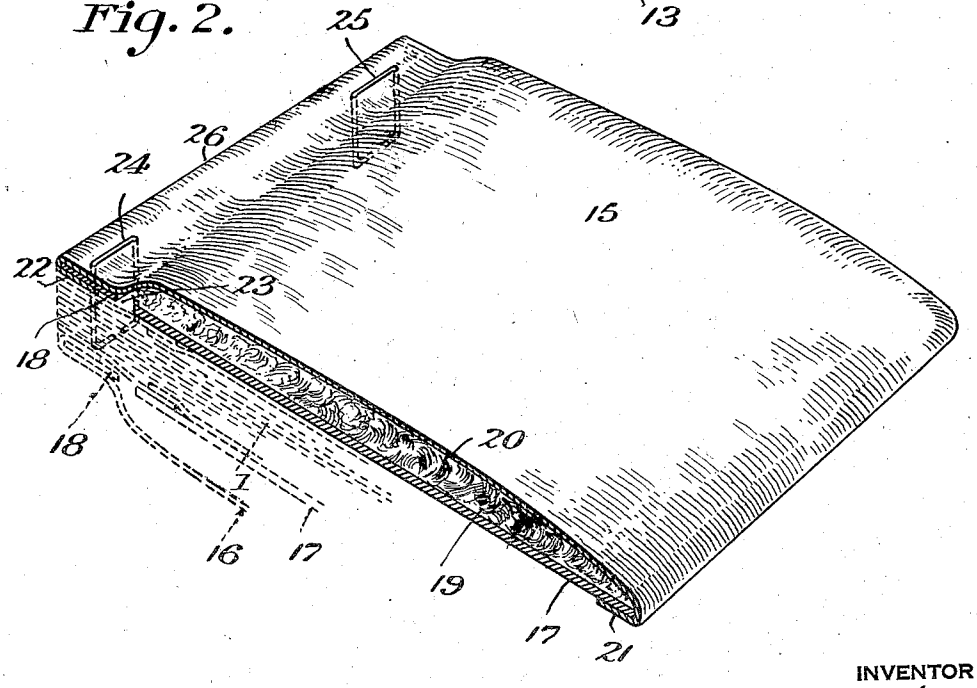


Fig. 2.



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Fig. 3.

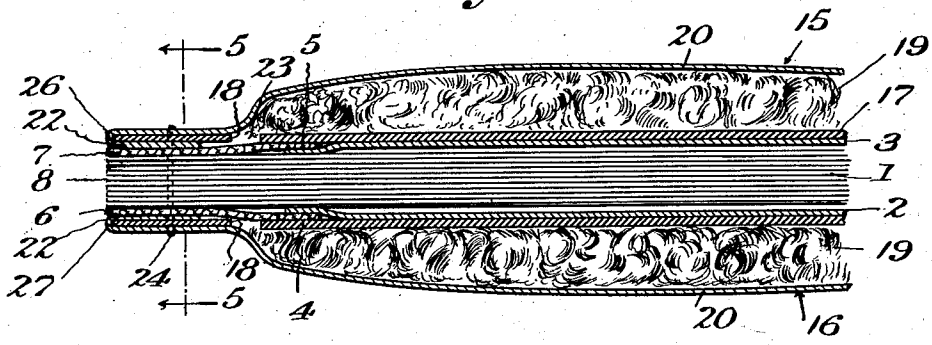


Fig. 4.

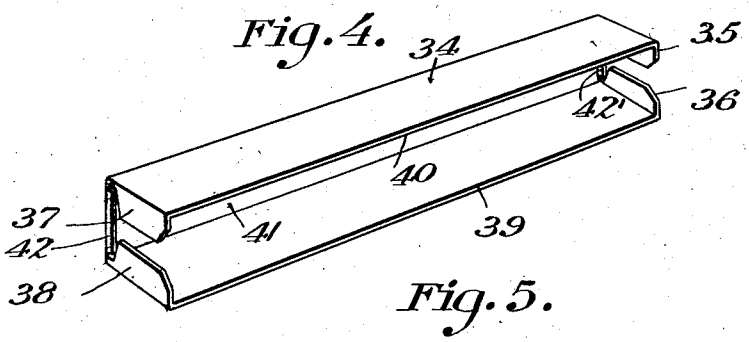


Fig. 5.

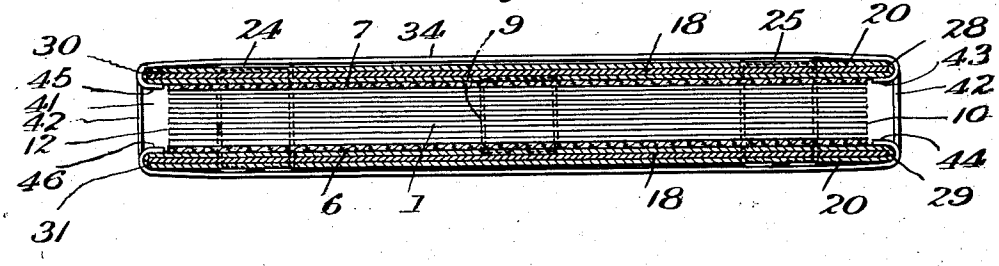
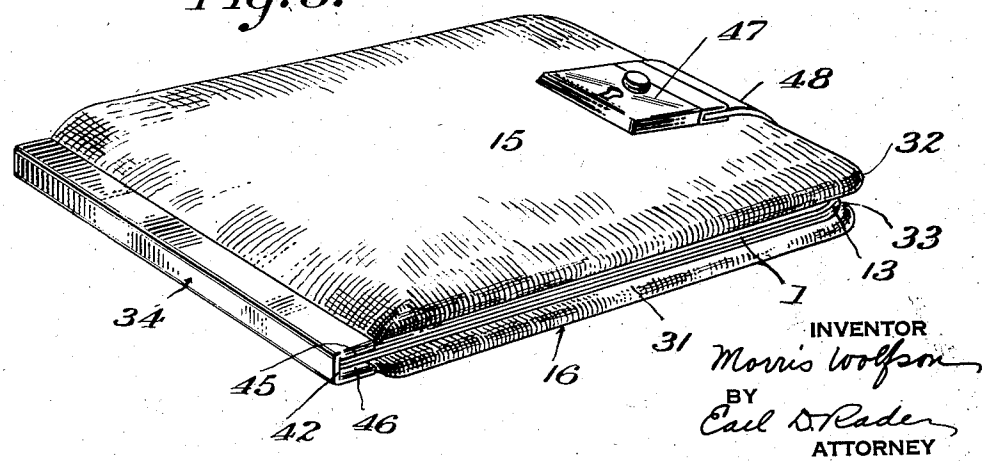


Fig. 6.



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UNITED STATES PATENT OFFICE

2,004,482

BOOKBINDING

Morris Wolfson, Brooklyn, N. Y.

Application December 18, 1933, Serial No. 702,926

2 Claims. (Cl. 281—25)

This invention relates to bookbindings and while intended for general use is particularly adapted for photograph albums and books of similar character which require bindings of great strength and rigidity in order to withstand continuous use over long periods.

Photograph and autograph albums in particular are subjected to continuous use and it is a desideratum that these shall be constructed in a manner that will insure their remaining intact over many years.

It is well known that such books often become useless long before their purpose has been served, through their covers being detached and the threads of the sewing breaking where the sections of the book are joined together. When this occurs it is exceedingly difficult if not impossible to restore the book to its original form. Also in such books that portion of the material which covers the back of the book is usually worn through long before the front and back covers are seriously injured and when in such state the binding is not only unsightly but the sewing of the book is also exposed to injury and disintegration. It is therefore a primary object of my invention to provide a bookbinding of durable construction and having great strength and rigidity.

A further object of my invention is to provide a bookbinding having two separate cover units which are joined together through the medium of a metal backing.

Another object of my invention is to provide a bookbinding having separate cover units which are first mechanically and adhesively attached to the book and then joined together through the medium of a metal backing.

Another object of my invention is to provide a preformed metal backing which may be conveniently attached to opposed book covers comprising separate units.

Another object of my invention is to provide a simple and economical method of binding which will result in a book of durable construction that can be placed on the market at reasonable cost.

With these and other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the appended claims. Also in the appended claims I prefer to define a book as made up of sections. It is to be understood that this term shall include a book composed of single leaves as well as folded sections, or a combination of both.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being understood however, that no limitation is necessarily made to the precise structural details therein shown, but that changes, alterations and modifications within the scope of the appended claims may be resorted to when desired.

In the drawings:

Fig. 1 is a perspective view of a partially bound book in readiness for covering;

Fig. 2 is a perspective sectional detail view of a separate cover unit and illustrating its mechanical attachment to a book;

Fig. 3 is a sectional detail view taken vertically through the book substantially as shown in Fig. 2;

Fig. 4 is a perspective view of a preformed metal backing constructed in accordance with my invention and ready for attachment to the covers of the book;

Fig. 5 is a sectional detail view taken vertically through the book substantially on the line 5—5 in Fig. 3 looking in the direction of the arrows and showing the separate covers joined by the metal backing; and

Fig. 6 is a perspective view showing a completed book constructed in accordance with my invention.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, 1 is the book which is composed of a plurality of single leaves or folded sections. 2 and 3 are the end sheets which are adhesively attached at 4 and 5 to the cloth hinge strips 6 and 7 in the well known manner. As shown in Fig. 1, the plurality of leaves or sections 1, the end sheets 2 and 3 and the hinge strips 6 and 7 have been properly aligned, glued at the back edge 8, and mechanically bound together by the wire staple 9, and the edges 10, 11 and 12 have been trimmed and the corners 13 and 14 have been rounded, in the well known manner. As shown in Fig. 1, the book has been advanced in its manufacture to the point where it is ready for the usual cover consisting of a leather or fabric "case" which completely surrounds the sides and back of the book and which is adhesively attached to the sides of the book. While my invention permits the use of the usual cover or case I prefer to take advantage of the material saving that may be had through providing separate cover units. It is well known

that leather hides or fabric sheets or rolls may be cut more economically and advantageously in half cover sizes than in full sizes, and through the use of my separate cover units and metal backing to be hereinafter described, these desirable features are obtained. As shown in Fig. 2, the cover 15 is a self contained unit and is constructed as follows.

The heavy foundation cover board 17 and the light hinge board 18 are composed of the well known "binders" board or other suitable substance. To the cover board 17 is attached cotton or wool padding if desired, as shown at 19. The leather or fabric 20 is pasted or glued to the boards 17 and 18 and the padding 19 and turned around the edges of the boards 17 and 18 with the usual turn in or inside lap as shown at 21 and 22. Proper space for hinging is allowed between the boards 17 and 18 as shown at 23.

Cover unit 15 and its counterpart unit 16 are next adhesively attached to the end sheets 2 and 3 and cloth hinge strips 6 and 7 of the book 1, with the back edges 26 and 27 of the cover units in vertical alignment with the back 8 of book 1. When the adhesive is sufficiently set or dry to permit handling, the cover units 15 and 16 are additionally and mechanically attached to the book 1 by means of wire staples 24 and 25 which are disposed outwardly of the wire staple 9 in the book 1.

As best shown in Figs. 5 and 6, the cover units 15 and 16 are made somewhat larger than the book 1 to provide cover extensions 28, 29, 30, 31, 32 and 33 beyond the three edges 10, 11 and 12 of book 1. The extended edges 28, 29, 30 and 31 are utilized for engagement by a metal backing 34 which joins the cover units 15 and 16 together. As shown in Fig. 4 the metal backing 34 is preferably rectangular in shape and has inwardly turned flanges 35, 36, 37 and 38. The metal backing 34 is of proper dimension between its walls 39 and 40 to tightly enclose the back 8 of book 1 and backs 26 and 27 of the cover units 15 and 16. The metal backing 34 is forced over the backs 26 and 27 of the cover units 15 and 16 until the wall 41 of said backing is firmly engaged with the back 8 of book 1. The flanges 35, 36, 37 and 38 of the metal backing 34 are then bent inwardly from the position shown in Fig. 4 to engage and compress the extended cover edges 28, 29, 30 and 31 respectively of the cover units 15 and 16, as shown at 43, 44, 45 and 46 in Fig. 5. The inwardly turned flanges 42 and 42' of the metal backing 34 remain in the position shown in Fig. 4 and serve to hide the back edge 8 of book 1. When my invention is used for photograph or autograph albums, I prefer to attach to the covers 15 and 16 the well known lock 47 and lock strap 48 in order to insure against unauthorized copying or removal of any of the leaves or contents of book 1.

It will appear from the foregoing description that I have provided a bookbinding of durable construction having great strength and rigidity and one that may be used continuously over many years without the usual disintegration of a thread sewed book of the type having a back portion of leather or fabric. It will also appear that a book embodying my invention does not depend alone on the well known cloth and paper hinge to retain its covers but that the covers of my book are retained by a metal backing of great strength as well as by the usual cloth and paper hinge.

As has been shown, a book embodying my invention eliminates the disadvantages of a leather or fabric back portion which may be worn through before the covers are injured, and insures that the backing of the book will be intact as long as any part of the book remains.

My method of bookbinding herein described is simple, and will result in the production of a book of reasonable cost having a construction more durable than more expensive bindings intended for the same purpose while at the same time comparing favorably in appearance with a book having the finest and far more expensive binding.

It will also appear from the foregoing that I have provided separate cover units that are both adhesively and mechanically attached to the book and which may be separately and economically manufactured. Also by reason of the fact that the cover units are of half cover size, my separate cover unit has the advantages of material savings that may be had over full cover sizes.

It will also appear that I have provided a metal backing for a book that may be simply manufactured and attached to the covers of a book and which will afford maximum protection to the means by which the covers are attached to the book.

Having thus described my invention and pointed out the features which are new, what I claim is:

1. A book comprising a plurality of sections and front and back end sheets therefor having hinge strips, said sections and said hinge strips being united together at the binding edges thereof, separate front and back cover units having head and foot edges extending outside the marginal edges of said sections and said end sheets and adhesively secured to said front and back end sheets and said hinge strips, a plurality of wire staples extending through said sections said hinge strips and said cover units adjacent the binding edges thereof, and a channel shaped backer mounted over said front and back cover units and covering said plurality of wire staples, said backer having end flanges bent around and in compressed engagement with the extended edges of said front and back cover units for retaining said backer in position with relation to said cover units as aforesaid.

2. A book comprising a plurality of sections and front and back end sheets therefor having fabric hinge strips, said sections and said hinge strips being adhesively united together at the binding edges thereof, a wire staple extending through said sections and said hinge strips adjacent the binding edges thereof, separate front and back cover units having head and foot edges extending outside the marginal edges of said sections and said end sheets and adhesively secured to said front and back end sheets and said hinge strips, a plurality of wire staples extending through said sections said hinge strips and said cover units adjacent the binding edge thereof, and a channel shaped metal backer mounted over said front and back cover units and in engagement with the binding edges of said sections and covering said plurality of wire staples, said backer having end flanges bent around and in compressed engagement with the extended edges of said front and back cover units for retaining said backer in position with relation to the binding edges of said sections and to said cover units as aforesaid.

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