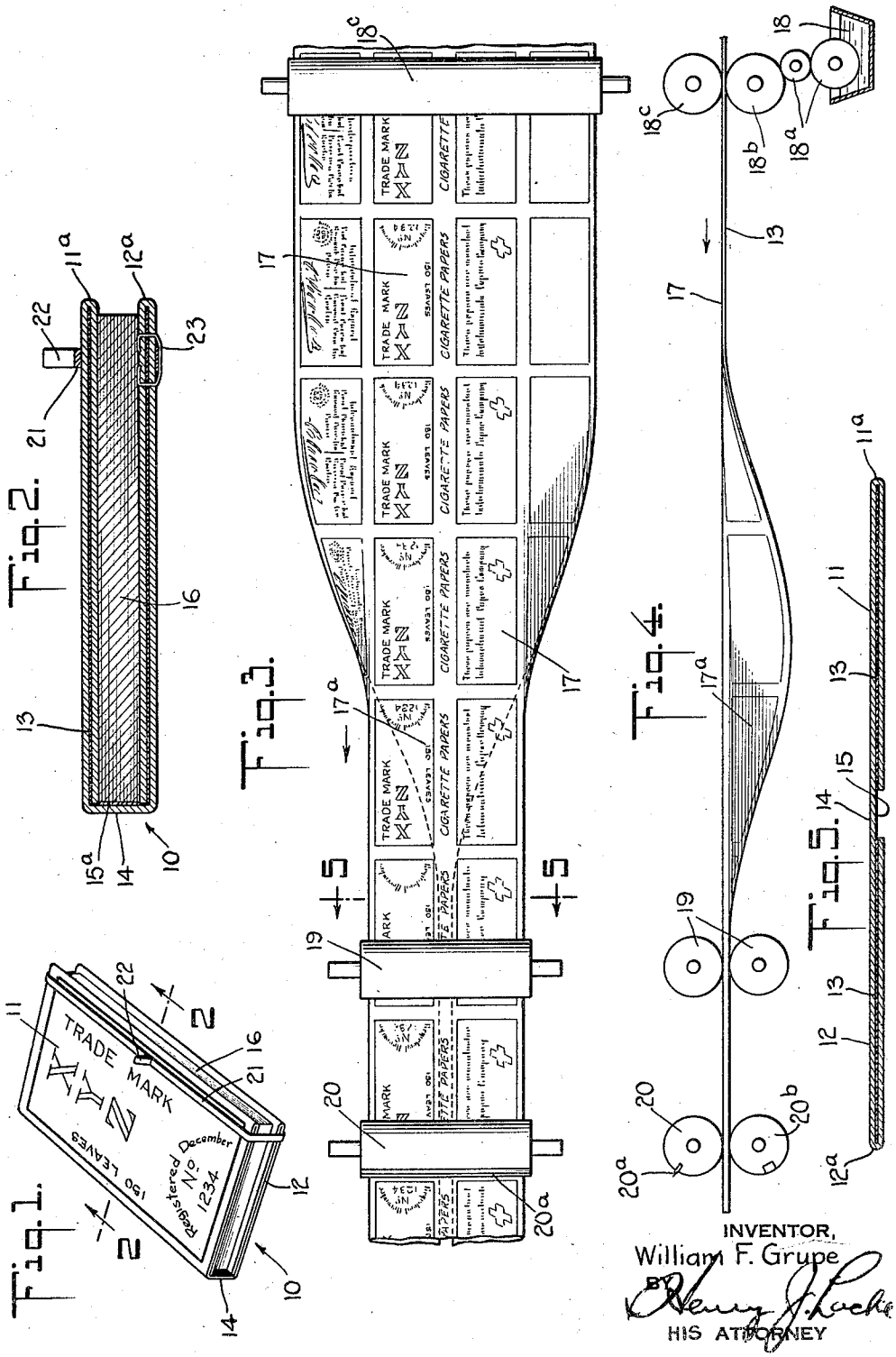
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CIGARETTE PAPER BOOKLET

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INVENTOR,
William F. Grupe
BY Henry J. Lucke
HIS ATTORNEY

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CIGARETTE PAPER BOOKLET

William F. Grupe, Lyndhurst, N. J., assignor to Chambon Corporation, Garfield, N. J., a corporation of New York

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My invention relates to an improved booklet and the method of producing the same.

My improved booklet is of particular utility for enclosing a bloc of cigarette paper. However, my booklet is of utility for other book purposes.

In general, my booklet and my improved process of manufacture comprises, inter alia, folding upon itself the opposed end portions of a web or blank and securing together by adhesive or the like the thus juxtaposed inner faces of the thus folded portions, the folded over portions aggregating less than half of the original width of the web or blank, to provide a zone of relatively reduced thickness serving as the backbone of the folded over, i. e., resulting cover parts of the booklet.

Usually, the backbone is disposed substantially centrally of the cover parts, in which circumstance the folded over portions are of substantially equal width.

My process is of especial advantage in that it affords printing or otherwise impressing the desired written and/or other legible matter at one operation and upon one face only of the web or blank.

The web form of utilization possesses the further attribute of carrying out the folding stage in continuity of the printing or other impressing stage, the web being then severed transversely of its ultimate width, the resulting individual booklets being stacked, conveyed or otherwise handled.

Usually a double thickness for the folded, i. e., cover parts suffices, although the principle of my invention includes multiple folding of each of the opposed folded portions, thus providing for triple and increased multiple thickness of the web or blank serving as the cover parts.

Desirably, means are provided for retaining my booklet in closed position. An advantageous form of closure means for booklets enclosing cigarette paper is afforded by an endless rubber band and preferably provided with a tab for manual grasping, the band being suitably secured to a cover part. A desirable securement of the rubber band, particularly applicable in the production of my booklet from blanks, is had by inserting a length of the band between the folded over portion at one side of the booklet, whereby the same is secured mechanically between and by the folded over parts of one cover and by the adhesive bonding the folded portions to one another.

Such closure means of a rubber band or equivalent may be attached to a cover part by a staple or other suitable mode of attachment.

Further features and objects of the invention will be more fully understood from the following detail description and the accompanying drawing, in which

Fig. 1 is a perspective view of a preferred form of my invention, illustrated as a cigarette paper booklet. Fig. 2 is a sectional elevation on section line 2—2 of Fig. 1, on an enlarged scale, Fig. 2 showing a staple type of securement of the rubber closure band.

Fig. 3 is a diagrammatic plan view indicating the stage of imprinting a web of paper stock of the desired printed matter and the stage of folding over the opposed edge portions of the web in continuity of the printing stage. Fig. 4 is an edge view of Fig. 3.

Fig. 5 is a sectional view on section line 5—5 of Fig. 3.

Referring to the drawing, notation is made that my invention, while highly advantageous in the production of booklets for cigarette paper, essentially is not restricted thereto but is applicable to all forms of books. In particular reference to cigarette paper booklets, by reason of the nature of the product, economy and attractive appearance are of paramount value; premised upon the history to date of cigarette paper booklets it is also considered essential from the commercial viewpoint, that there be printed upon the inner faces and upon the outer faces of the cover parts, the name or brand of the cigarette paper, the name and address of the manufacturer or the stated data of the manufacture of tobacco with which the cigarette paper is supplied or otherwise associated, a statement of the qualities of the cigarette paper, directions of use, trade-mark and other indicia, and the like.

My invention attains the above attributes whether the production be effected by the web type of my method or by the blank type of my invention, with commercially reasonable certainty of uniformity of product, the web type of my invention, as appears, bestowing added advantages of lower cost of production.

The booklet illustrated in Figs. 1 and 2 conforms to present day accepted dimensions of cigarette paper, usually inserted within the booklet as a bloc of a prescribed number of leaves, the cigarette paper being provided with an area of adhesive adjacent one edge of each leaf or "plain", i. e., without such area of applied adhesive. In a bloc of adhesive type of cigarette paper, the respective leaves are stacked in the bloc with the areas of applied adhesive in aligned superposition. Usually, the bloc of cigarette

paper is detachably attached to one another as a group by adhesive applied in regulated amount to an edge of the bloc, affording the withdrawal singly of the uppermost leaf while preserving the remainder of the leaves as a group or bloc.

Essentially, the type of booklet 10 illustrated in Figs. 1 and 2 comprises cover portions 11, 12, formed of two thicknesses of the stock of paper or the like, respectively folded at opposed sides upon itself, see also Fig. 5, and the juxtaposed inner faces secured to one another by a suitable medium such as adhesive, see 13. The backbone 14 of the booklet is of a single thickness of the stock.

By such folded procedure the lengthwise—and prominent—edges 11*a*, 12*a*, are rounded, i. e., folded over and unsevered, thus presenting a neat appearance and avoiding the exposing of the inner portion of the stock as is the case where the stock is severed.

The single and relatively thinner portion 14 serving as the backbone functions to impart the desired hinge-like action, effective in opening and closing the book. Also, the recess afforded by the termination of the edges 11*b*, 12*b* of the doubled, i. e., folded over cover portions 11, 12, facilitates the insertion and retention of the bloc 16 of cigarette paper, as by application of adhesive to the face of the recess jointly attaching the leaves of cigarette paper to one another as a bloc at its juxtaposed edge and the bloc as an entirety to the inner face of the backbone, i. e., within the recess 15. Such adhesive is desirably applied in quantity to effect the above dual functions and to permit the leaves to be singly removed in seriatim without disturbance of the remainder of the bloc.

It is observed that the printing upon the outer faces of the respective cover portions and/or upon the inner faces thereof is had by imprinting upon one face solely of the stated portions, and thereafter folding as above set forth.

The above or equivalent book or booklet, depending upon its dimensions, may be produced from an appropriate blank as above set forth, or from a web.

In Figs. 3 and 4 I have indicated a web 17 of paper or other suitable pliable stock bearing the desired printing or other impressions, the adhesive being supplied from the font 18, as by its feed rolls 18*a*, to the lower roll 18*b*, functioning with its cooperating roll 18*c*. At 19, is shown a pair of compressing rolls, and the web at this stage of its progress, see 17*a*, is folded at its opposed edge portions, in this instance to equal extents, adhesive having been applied upon the inner, i. e., juxtaposed faces of the web as above indicated, whereby the same are respectively secured together, the web being then severed to form the individual booklets. The roll 20 having a suitable severing edge 20*a* diagrammatically represents a severing roll and 20*b* its cooperating roll.

Desirably, closure means for the booklet is provided, such as the band 21, of rubber or other suitable material, preferably having an extension or tab 22. Such closure means is suitably attached to a cover or cover portion, the staple 23 representing such or equivalent mode of attachment. Such band 21 may be mechanically or manually inserted between two folded over edge portions during the stage of formation of a cover part, to attain its attachment thereto, thus avoiding stapling or the equivalent and preserving the smooth faces of the cover to which it is attached.

My invention is eminently adapted for forming books of material of the nature of paper stock bearing finish paper or equivalent on one face, upon which face the legible matter is impressed, whereby upon treating a web or an individual blank of the stated material, the resulting book having the leaves thereof positioned within the backbone of the book, possesses full finish as well as the desired legible matter upon all exposed faces. Such procedure affords the economy in the use in major part of relatively low cost paper stock.

In the utilization of my invention of three or more layers of stock for each or either cover portion, the number of folds of the respective cover portions are carried out correspondingly, the impressed matter being applied to the portions of the web or of the individual blank which are ultimately exposed in the completed book.

Economy in cost of material and also increased co-efficients of tensile, shearing and puncture strengths as well as enhanced quality of product are attained, particularly in the use of relatively thinner stock, by the resulting laminated structure of the front and rear cover portions, in which laminated structure the intervening layer of adhesive forms an element of the laminations. Further, the degree of flexibility or rigidity of the resulting laminated structure, is controlled by proper selection of adhesive.

In the claims I employ the term "book" to positively include the above stated structural feature that the leaves of such book are non-permanently, i. e., individually removable, and that the leaves as a group are, subject to such removal, secured to the backbone portion of the cover.

Whereas I have described my invention by reference to specific forms thereof it will be understood that many changes and modifications may be made without departing from the spirit of the invention.

I claim:

1. A cover for a cigarette paper booklet comprising opposedly related cover portions, each cover portion being formed of a plurality of mutually co-extensive plies respectively integrally related to one another, each plurality of mutually co-extensive plies being folded upon and bonded respectively to one another, the material of said cover portions being integrally connected to one another, said cover portions being spaced from one another to provide a backbone of lesser thickness as compared with the cover portions, the obverse and reverse faces of said cover portions bearing legible matter, the aforesaid serving to receive a bloc of cigarette papers.

2. A cover for a cigarette paper booklet comprising opposedly related cover portions, each cover portion being formed of a plurality of mutually co-extensive plies respectively integrally related to one another, each plurality of mutually co-extensive plies being folded upon and bonded respectively on one another, the material of said cover portions being integrally connected to one another, said material comprising unfinished pliable paper stock bearing finish paper on one face thereof, said cover portions being spaced from one another to provide a backbone of lesser thickness as compared with the cover portions, the obverse and reverse faces of the finish paper of the material of said cover portions bearing legible matter, the aforesaid serving to receive a bloc of cigarette papers.

WILLIAM F. GRUPE.