(No Model.)

H. GOODCHILD.

TEMPORARY BINDER.

No. 332,390. Patented Dec. 15, 1885.

FIG. 1.

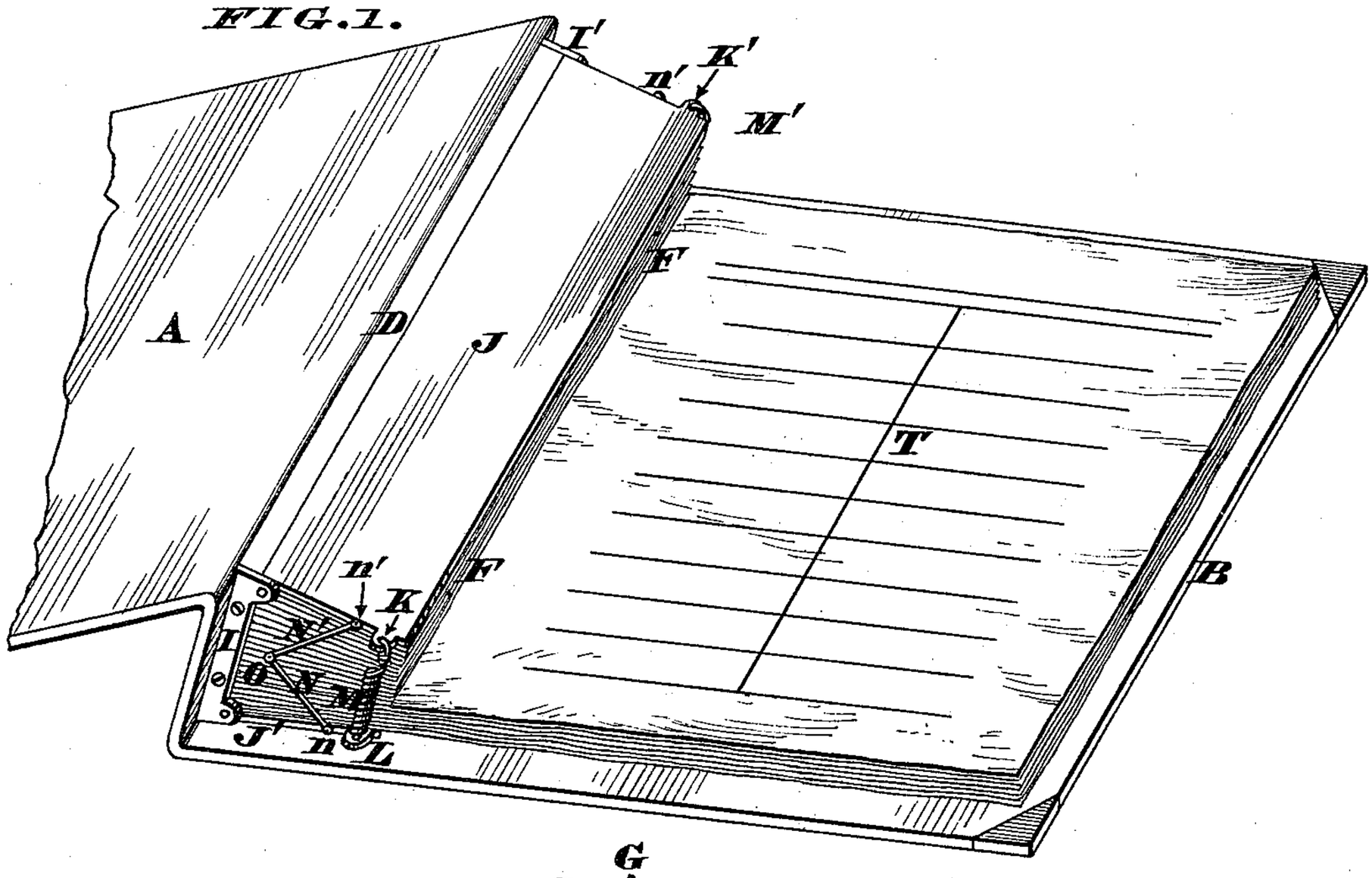


FIG. 2.

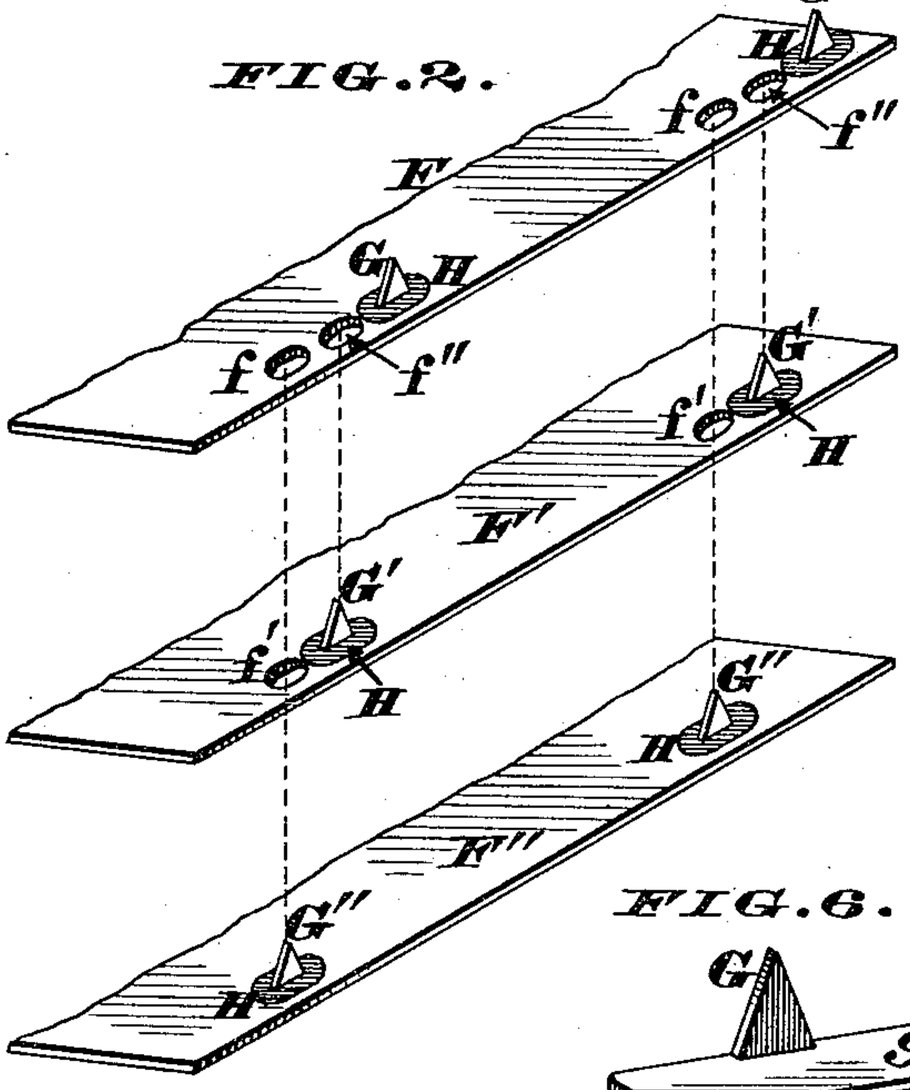


FIG. 3.

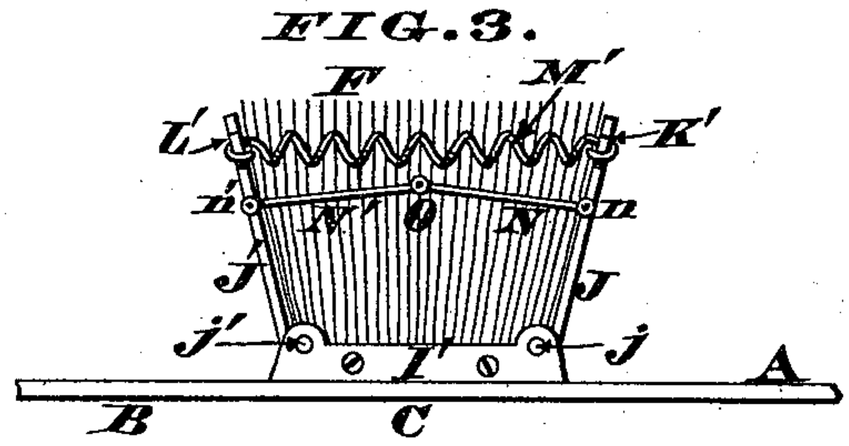


FIG. 4.

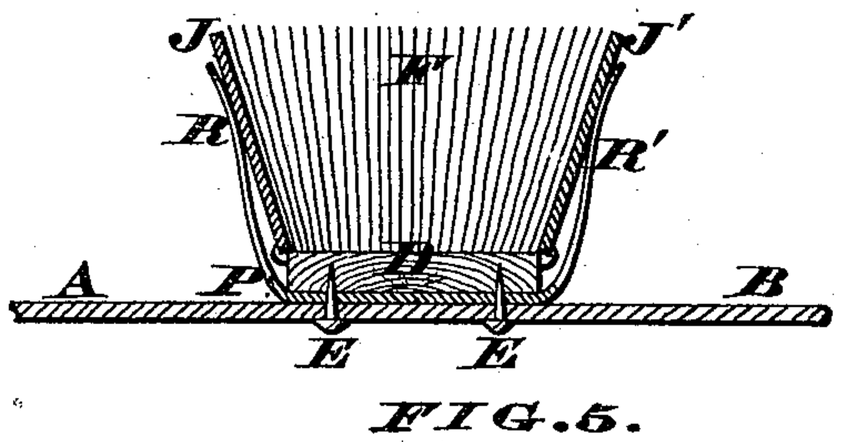


FIG. 6.

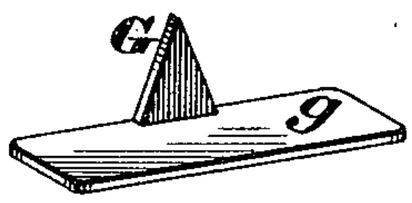


FIG. 5.

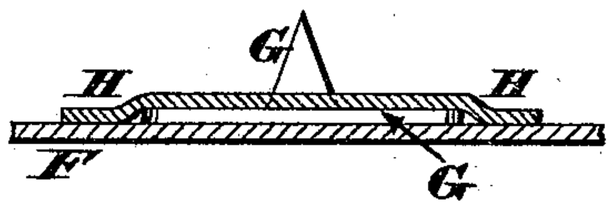
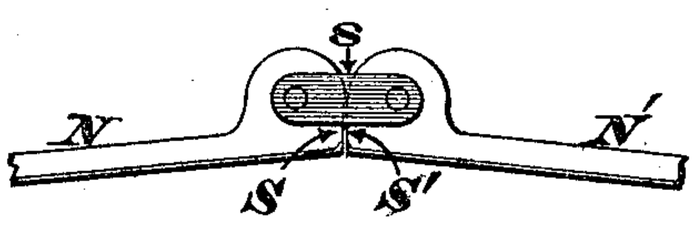


FIG. 4.



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UNITED STATES PATENT OFFICE.

HENRY GOODCHILD, OF CINCINNATI, OHIO.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 332,390, dated December 15, 1885.

Application filed October 15, 1884. Serial No. 145,621. (No model.)

To all whom it may concern:

Be it known that I, HENRY GOODCHILD, a citizen of Canada, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Paper-Files or Temporary Binders, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention comprises a novel construction of stub-book, within which letters and other papers can be temporarily filed in such a manner as to be conveniently referred to or to be readily detached when occasion requires. This book has attached to its back a strip or block, preferably of wood, and to the front of this block the stubs are securely glued, cemented, or otherwise fastened, said stubs being composed either of stout paper or other suitable flexible material or materials. Furthermore, each stub has permanently attached to it two or more small barbs or spurs adapted to penetrate letters, invoices, notices, or other papers, and thereby retain them securely within the book. In order to prevent these barbs being flattened, suitable perforations are made in the contiguous stubs, the latter being pressed snugly together by a pair of clamp-plates, whose inner edges are pivoted to bearings attached to the opposite ends of the wooden strip or block, while the outer or free edges of said plates are provided either with coiled springs or flexible bands or equivalent devices that produce the desired clamping action of these pivoted plates, as hereinafter more fully described.

Another feature of my invention consists in attaching suitable devices to said clamp-plates for the purpose of allowing the latter to be opened to a certain predetermined distance when it is desired to insert papers in the book or to detach them therefrom. These devices may consist of a pair of links or ties jointed to each other and coupled to the clamp-plates; or the same result may be accomplished with a peculiar-shaped spring attached to the back of the book, as hereinafter more fully described.

In the annexed drawings, Figure 1 is a perspective view of a book embodying my improvements, said book being thrown open and a number of papers being seen attached to the stubs thereof. Fig. 2 is a perspective view of a number of these stubs detached from the book. Fig. 3 is an end elevation showing the book open and the clamp-plates of the same spread apart to allow free access to the stubs. Fig. 4 is a section of a modification of the devices that limit the spread or opening of said plates. Fig. 5 is a longitudinal section showing the method of attaching the barbs or spurs to the stubs. Fig. 6 is a perspective view of one of said spurs detached from the stub. Fig. 7 represents the preferred method of uniting the tie rods or links.

A B represent the two flaps, covers, or lids of a book or portfolio of any desired size, shape, and material, said covers being united by an ordinary back, C, to the inner side of which latter is secured a strip or block, D, preferably of wood. This block may either be glued or cemented to the back, or it may be fastened thereto with tacks E, as seen in Fig. 4. Cemented, glued, or otherwise permanently attached to this block D are the stubs F, of which as many may be employed as circumstances may suggest, said stubs being composed either of stout paper or muslin, or thin leather, or any suitable flexible material or materials. Projecting from the rear stub, F″, and near the free edge of the same, as seen in Fig. 2, is a pair of pointed spurs or barbs, G″, of any suitable length, which barbs are adapted to enter perforations *f′* and *f* of the other stubs, F′ and F, and so on, through as many stubs as the barbs will penetrate. The spurs G′ of the next stub, F′, pass through holes *f″* of the stub F, directly above it, and the spurs G of this last stub must traverse suitable perforations in its neighbor, and thus continuously throughout the book, the spurs of one stub being arranged to dodge the spurs of the next stub. Furthermore, the spurs in the front half of the book may be arranged to project rearwardly, if desired. Each spur has a foot, *g*, that affords an extended base or bearing on the stub, a suitable washer, H, being either gummed, cemented, glued, or stitched over said foot, so as to hold the spur securely in position. Attached to the opposite ends of the block D are small plates I I′, that afford bearings for a pair of clamp-plates, J J′, the latter being pivoted at *j j′*. Projecting from the opposite ends of these clamp-plates, and near their free edges, are ears or lugs K K′ L L′, said ears having attached to them coiled springs M M′. In order to allow these clamp-plates to be opened, and at the same time to prevent them spreading too far

apart, links N N′ are coupled to said plates at *n n′*, which links may be united to each other by means of a knuckle-joint, O; or the same result may be effected by securing a spring-holder, P, between the block D and the back C, as seen in Fig. 4, the arms R R′ of said holder serving to support the plates J J′, when the latter are thrown open, although these arms will fold up snugly against said plates when the book is closed. I prefer uniting the links N N′ in the manner shown in Fig. 7, where they are seen provided with bearings S S′, connected with a short coupling, *s*. When the book is in its normal condition, the knuckle-joint O occupies the position seen in Fig. 1, thus allowing the springs M M′ to exert their full force in clamping the plates J J′ against the front and rear, respectively, of the stubs F.

To file letters or other papers, T, therein, the covers A B are opened out flat, as seen in Fig. 3, and the knuckle-joint O is advanced, so as to spread the plates J J′, the bearings S S′ serving to retain the links N N′ in their proper positions. This act relieves the stubs F of the pressure of the springs M M′ and allows the papers to be readily impaled on the spurs G″ of the rear stub, F″, and after a sufficient number of papers have been thus applied the next stub, F′, is turned down, thereby causing its perforations *f′* to engage over the points of said spurs. Other papers are subsequently applied to the spurs G′ of stub F′, and when this stub is filled the next one, F, is turned down, so as to engage its perforations *f″* over the points of said spurs G′, and so on throughout the entire series of stubs until the book is filled. The papers may either be filed singly, or a number of them can be applied at the same time, and as soon as they are properly inserted the knuckle-joint O is forced back to its normal position, so as to cause the stubs and their attached papers to be securely confined between the clamp-plates J J′.

If desired, a sufficient number of stubs may be applied to the book to permit the insertion of but a single letter or other paper between each pair of stubs, by which arrangement any particular document can be readily removed without disturbing the other papers.

I claim as my invention—

1. The combination, in a temporary binder, of clamp-plates J J′, springs M M′, and stubs F, the latter being provided with a series of perforations and spurs arranged substantially as herein described, said clamp-plates and stubs being applied to the back of the binder, for the purpose described.

2. In combination with a temporary binder consisting of the clamp-plates J J′, springs M M′, and stubs F, arranged substantially as herein described, a stop or tie composed of the jointed links N *n* N′ *n′*, bearings S S′, and coupling *s*, for the purpose stated.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY GOODCHILD.

Witnesses:
JAMES H. LAYMAN,
SAML. S. CARPENTER.