No. 661,213. Patented Nov. 6, 1900.

H. FITCH.

TEMPORARY BINDER.

(Application filed Mar. 31, 1900.)

(No Model.)

Fig. 1.

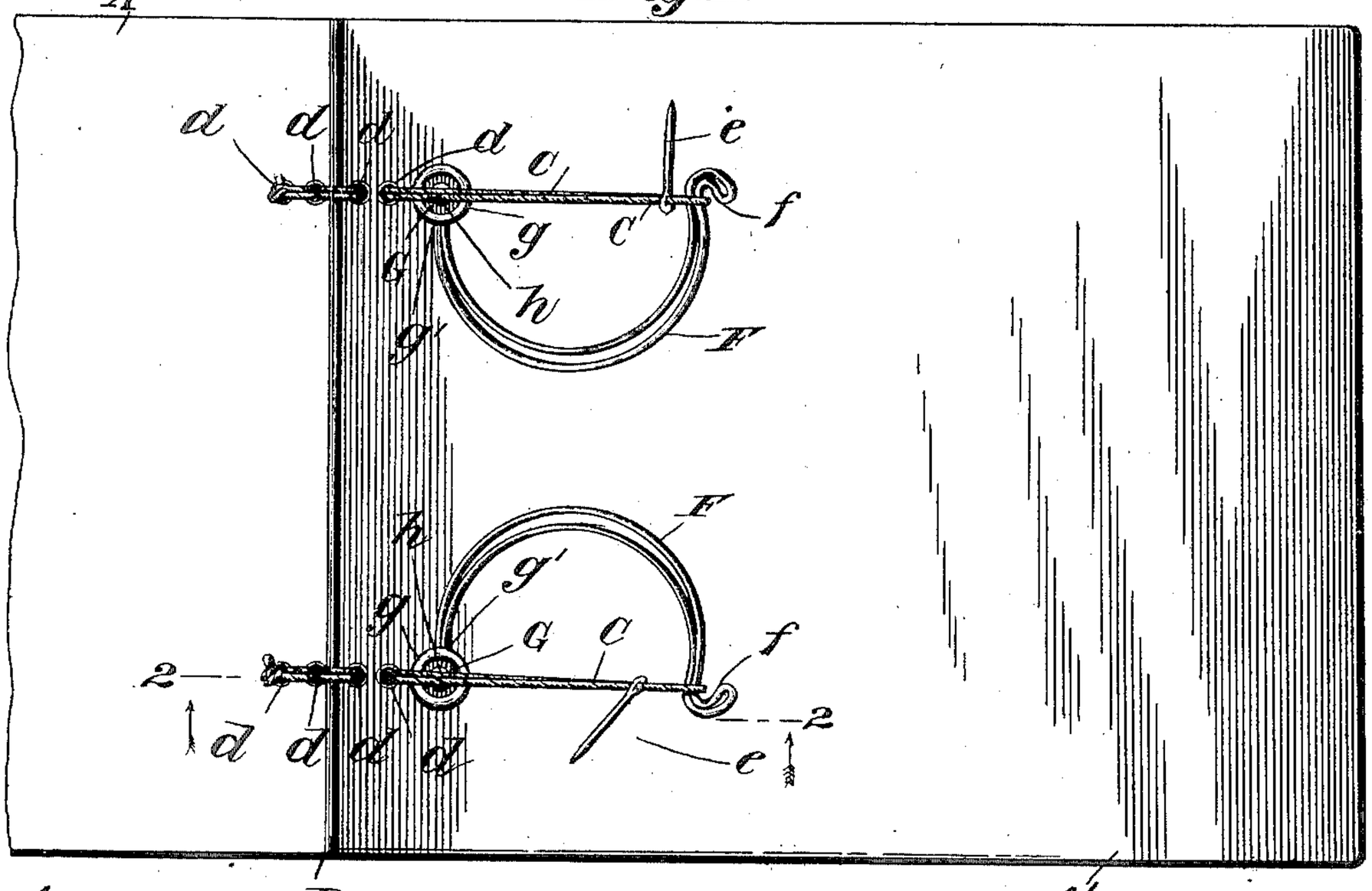


Fig. 2.

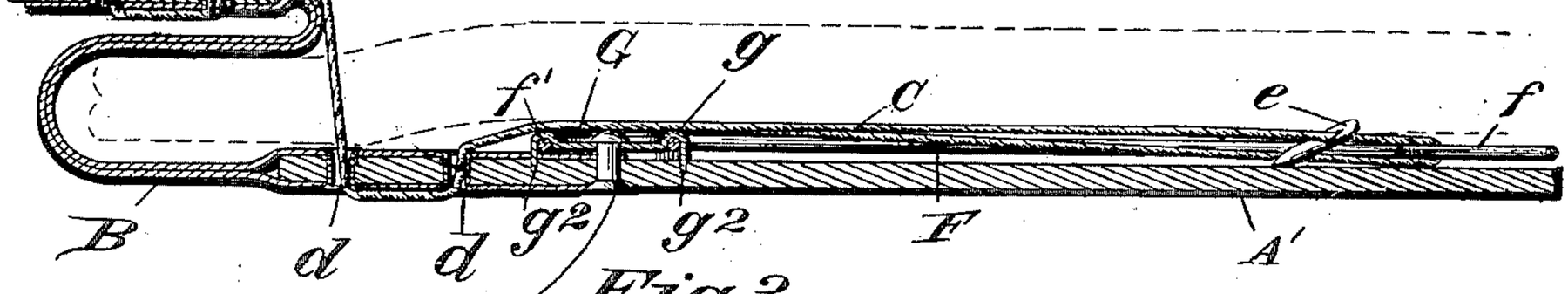


Fig. 3.

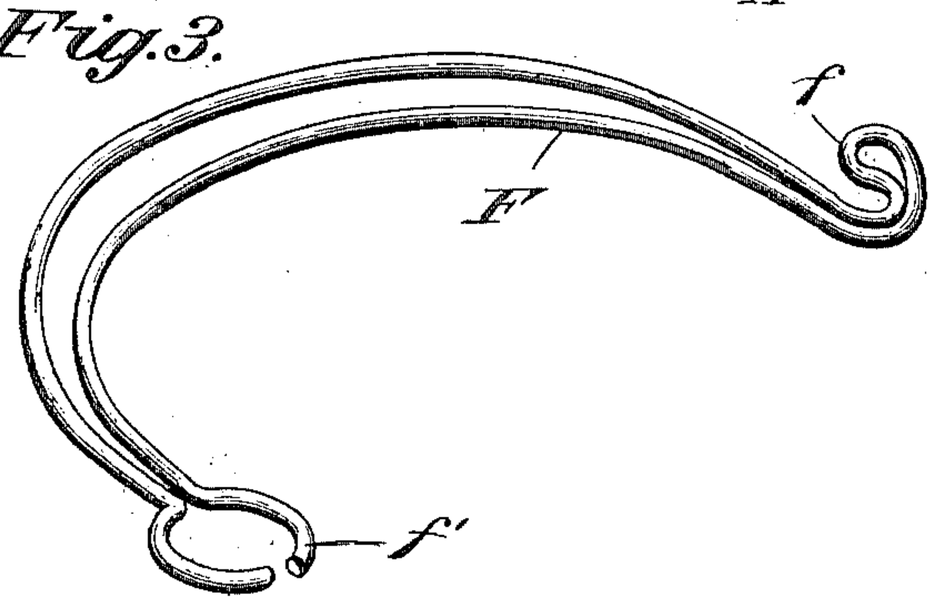
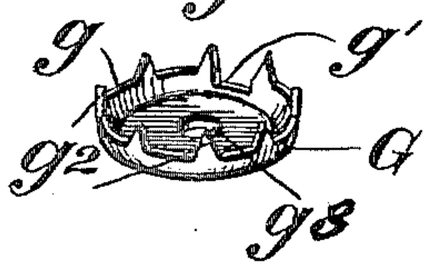


Fig. 4.



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UNITED STATES PATENT OFFICE.

HENRY FITCH, OF LAWRENCEBURG, INDIANA, ASSIGNOR TO ALICE BREWER FITCH, OF SAME PLACE.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 661,213, dated November 6, 1900.

Application filed March 31, 1900. Serial No. 10,920. (No model.)

To all whom it may concern:

Be it known that I, HENRY FITCH, (whose post-office address is Washington, District of Columbia,) a citizen of the United States, residing at Lawrenceburg, in the county of Dearborn and State of Indiana, have invented certain new and useful Improvements in Temporary Binders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in the type of temporary binders which have two flexibly-connected foldable covers between which the papers are bound, the papers being held in place by means of transversely-extending cords elastically attached, whereby said cords are kept at the proper tension regardless of the increasing contents.

The nature of my improvements will be readily comprehended, reference being had to the following detailed description and to the accompanying drawings, in which—

Figure 1 is a view in elevation of an opened temporary binder embodying my invention. Fig. 2 is an enlarged sectional view on line 2 2 of Fig. 1. Fig. 3 is a perspective view of one of the springs. Fig. 4 is a perspective view of the means employed for securing the springs to the binder.

Referring to the drawings by letter, A A′ denote the covers, which are secured together at their inner edges by a flexible back B, of leather, cloth, or other suitable material, whereby expansion is permitted as the contents increase. C C denote the binding-cords, which are secured at one end close to the inner edge of cover A and extend transversely across to the inner edge of the cover A′. Although the cords may be attached in a number of ways, I prefer that shown, which consists in providing two eyeleted holes *d d* in each of the cover edges, the doubled cord being looped around itself at one side to secure it and loosely passed through the holes in the other side, the free end carrying a needle *e* to facilitate the insertion of the sheets.

Secured to the inner side of the cover A′ are two curved springs, to which the cords are attached for the purpose of maintaining them at proper tension. Each of the springs, which are lettered F F, is of bow form and doubled, the free end being bent to form a hook *f* for engagement with its respective cord. The springs are made from preferably round steel wire of small diameter to avoid bulging; but by reason of the double construction the requisite power is secured. The inner ends of the spring are bent to circular form, as indicated at *f′*, and said ends are confined in a corresponding recess *g*, formed in a securing-cap G, the spring beyond its circular ends passing through the side of the cap at *g′*. Teeth or serrations g^2 enter the cover-body and prevent the cap, and consequently the spring, from turning. The caps are held by rivets *h*, which are inserted through the cover from the opposite side, the rivet-shank after passing through a hole g^3 in the cap being upset.

In practice the cords after being threaded through the sheet or sheets are looped over the hooks, the latter being moved inward by hand, and when released the retractile power of the springs draws the cords taut, but permits ready separation of the inner ends of the covers for examination of the contents. The springs are compressible to any extent, inasmuch as the hooked ends may be brought close to the secured ends; but regardless of the tension exerted the cords will yield readily in the event even of undue strain.

The extreme simplicity of my improved binder insures durability and high efficiency at all times. The binder may be easily, and hence cheaply, constructed, and by its use the binding of papers is greatly facilitated.

I claim as my invention—

1. In a temporary binder of the transverse-cord class, the combination with the looped binding-cord of a double bow-spring formed of a wire bent back upon itself in a horizon-

tal plane and terminating in a hook to engage the cord, and means for securing the inner end of the spring to the binder.

2. In a temporary binder of the transverse-cord class, the combination with the looped binding-cord, of a double bow-spring formed of wire bent back upon itself in a horizontal plane, the spring having at its outer end a hook to engage the cord and having lateral bends at its inner end, a cap covering and securing the laterally-bent end, and means for securing the cap in place.

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

HENRY FITCH.

Witnesses:

THEODORE A. FITCH,

ALICE BREWER FITCH.