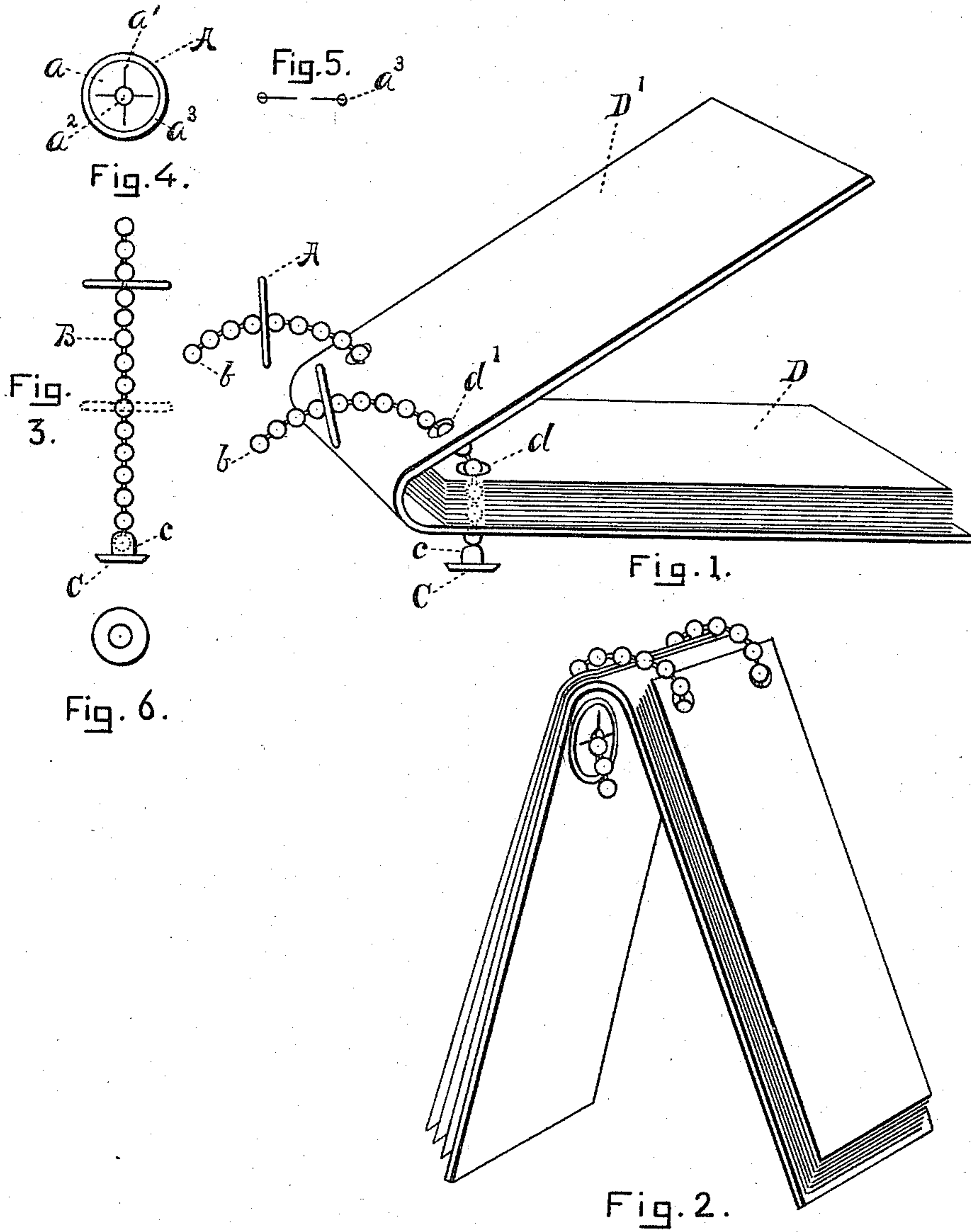


(No Model.)

H. G. CLEVELAND.
NOTE BOOK BINDER.

No. 579,423.

Patented Mar. 23, 1897.



WITNESSES:

James A. Lowell
Leo. H. Walsh

INVENTOR

Henry G. Cleveland

UNITED STATES PATENT OFFICE.

HENRY G. CLEAVELAND, OF NEWTON, MASSACHUSETTS.

NOTE-BOOK BINDER.

SPECIFICATION forming part of Letters Patent No. 579,423, dated March 23, 1897.

Application filed April 27, 1896. Serial No. 589,291. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. CLEAVELAND, a citizen of the United States, residing at Newton, in the county of Middlesex and State of Massachusetts, have invented a new and useful Note-Book Binder, of which the following is a full, clear, and exact description; reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

My invention relates to an improved note-book binder for fastening together the leaves of a note-book when these consist of loose sheets. Such note-books are in common use in schools and colleges, and it has been found desirable to provide means for holding the sheets within the cover of the book in such a way that new ones may be substituted for old at short notice. Such holders should allow the note-book to be opened easily and laid with both covers flat. Various devices have been in use for this purpose, but they have not proved satisfactory. A common way of holding the sheets together within the note-book has been to use McGill fasteners, but this is objectionable because the book cannot be opened freely. A wire ring has also been used like that commonly worn as a key-ring, but this is clumsy and inconvenient. I have accomplished the desired result by means of the herein-described chain, which is made of a size to freely pass through the holes of a note-book cover. It has an enlarged end which engages with the sides of one of said holes and prevents further movement of the chain. On the other end there is a disk which is adjustable back and forth, for a purpose to be presently described.

In the drawings, Figure 1 is a view of a note-book equipped with my invention. Fig. 2 is a view of a similar book opened out. Fig. 3 shows my improved chain detached. Fig. 4 is a detail view of one of the disks. Fig. 5 is a central cross-section of Fig. 4. Fig. 6 is a detached view of the end eyelet.

D' is the upper cover of a note-book which contains the sheets D. The sheets are provided with holes d , and the covers also have holes, as at d' . For the purpose of providing an adjustable binder for the note-book I have used the chain B. This is composed of beads or balls b , which are attached together

in such a way that the chain is quite flexible. Such chains are in common use as pendants from gas-jet cocks or in similar positions and need not be further described. On the last bead of the chain I place the head C, which has a flange extending around its base, as shown in Figs. 1 and 6. The flat bottom thus formed is made larger than the hole of a note-book. The free end of the chain B is passed through the holes in the note-book till the head C engages with the bottom cover and prevents further movement. On the other end of the chain the disk A is then slipped. The disk has a thin central section a with radial slits a' and a central hole a^2 . The rim of this disk is somewhat thicker than the central section, as shown in Fig. 5. The hole a^2 of the disk is made slightly smaller than the beads b of the chain B, so that the disk will be held at any desired position by engagement with a bead. The radial slits a' , however, permit the size of the opening a^2 to be varied somewhat, so that the disk A may be forced along the chain B by a slight pressure. The disk A may thus be placed at any point in the chain B to give the cover of the note-book the desired amount of play, and its position may be varied at will.

The beads b hold the disk with sufficient force to enable it to resist any strain which it might receive from the cover of a note-book when it is opened, but do not prevent its being moved to the desired position by the fingers.

By the use of my improved device the covers of a note-book may be held tightly against the sheets within when it is desired to economize space when the note-book is not in use. In the class-room the disk may be pulled out to give any desired amount of play to the covers of the book and the sheets of the note-book be thus used conveniently. When the lecture is over, the note-book may be again closed tightly and held in its closed position, as described. This feature of my invention is the most important one and will be found very useful.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. As an improved article of manufacture, a note-book binder comprising the chain B.

having the beads b and the adjustable perforated disk A, the perforation being of a size to enable the disk to be held in place by engagement with one of the beads b , but to
5 allow the disk to be moved past the same on a slight pressure being exerted upon it, substantially as described.

2. The combination in a note-book binder

of the chain B, the head C and the disk A having the thin section a , the central hole a^2 , 10 the radial slits a' and the rim a^3 , as and for the purposes described.

HENRY G. CLEVELAND.

Witnesses:

K. T. BUTLER,
LEO A. WALSH.