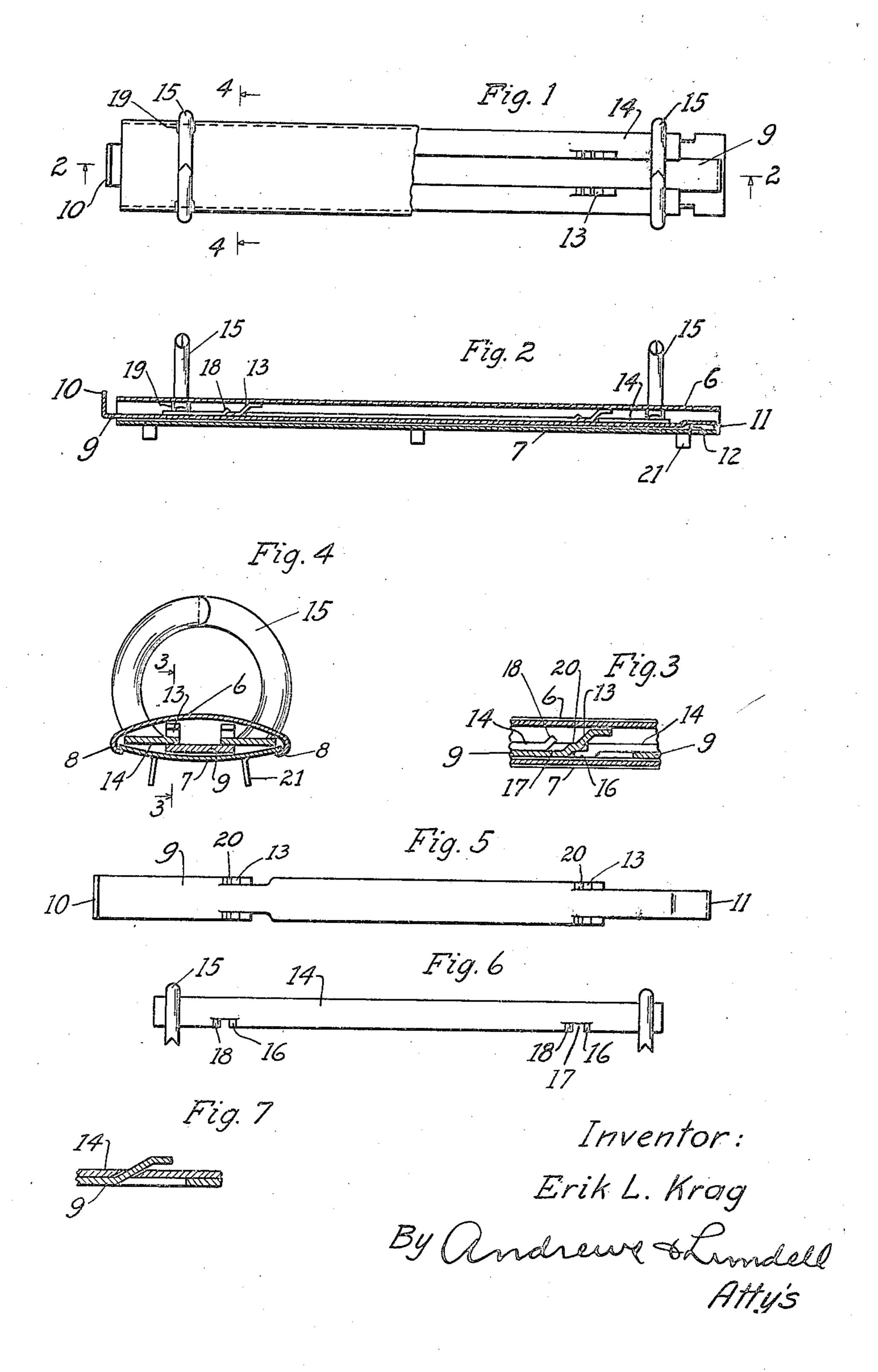
E. L. KRAG.
BINDER.
FILED JUNE 1, 1920.



UMITED STATES PATENT OFFICE.

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BINDER.

Application filed June 1, 1920. Serial No. 385,408.

To all whom it may concern:

10 otherwise, as may be desired, so that the hold the sheets of paper properly in place or 65 15 and effective binder for this purpose, which 13 pushing downwardly on the adjacent 70 20 tion of the accompanying drawings and the on the adjacent lips 18 of the strips, will 75 description thereof.

25 nal section of the binder along the line 2—2 ber 6 of the casing. of Fig. 1; Fig. 3 is an enlarged detail view. When the prongs are open or closed the

Fig. 3. The binder comprises an enclosing casing 45 10 limits the distance that the member can be slipped inwardly, and if desired a lug 11 may be formed on the inner end of the member which, by coming in contact with the stop 12 formed on the wall 7 of the casing, 50 prevents the member from being pulled out from the casing farther than is necessary to properly operate the device. The operating member 9 has fingers 13 fixed on its edges adjacent its ends; and these fingers are 55 arranged to rotate slightly two strips 14,

which are mounted for limited rotary move-Be it known that I. Errk L. Krag, a citi- ment longitudinally in the casing. Fixed zen of the United States, residing at Chi- to each of the strips 14 are prongs or segcago, in the county of Cook and State of ments of rings 15, each of which is so placed 5 Illinois, have invented certain new and use- with reference to the respective prongs of 60 ful Improvements in Binders, of which the the other strip as to operate in pairs; and following is a specification. said prongs are suitably arranged to open This invention relates to binders for bind- and close as the strips 14 are rotated someing together sheets of paper, in books or what by means of the member 9, and thus to sheets when opened up will lie flat and so to allow them to be released when desired that they can be readily removed from the by opening the rings. When the member 9 binder if desired. One object of the inven- is forced inwardly the strips 14 will be rotion is to provide a very simple, compact tated so as to close the prongs by the fingers has no springs, and otherwise is so arranged portions 16 which form the lips of the openas to be easily operated, but so as to be de- ings 17 in the strips 14 through which the pendable and durable. Other objects of the fingers 13 pass. And when the member 9 invention will be apparent from a considera- is pulled outwardly the fingers 13 operating force the prongs open; it being understood Of the drawings Fig. 1 is a plan view of that the prongs 15 are firmly fixed to the the binder with a portion of the outer wall respective strips 14 and pass out from the broken away; Fig. 2 is a central longitudi- casing through suitable holes 19 in the mem-

of a portion of Fig. 2; Fig. 4 is an enlarged member 9 locks them in position. When transverse sectional view along the line the prongs are closed the offset portions 20 4-4 of Fig. 1; Figs. 5 and 6 are plan views of the fingers rest on the lips 16, and thus 30 of certain elements of the binder; and Fig. hold the prongs closed; and when the prongs 85 7 is a modification of the details shown in are open the offset portions 20 lie under the members 14 and thus hold the prongs open.

Although I have set forth the details of consisting of two elongated segmental cylin- the binder which I prefer, yet modifications 35 drical walls 6 and 7, one of the walls having may be desired in case of similar binders for 90 flanges 8, so that one strip may be slid in various purposes such as for large or small the flanges of the other, thus holding the books, and such modifications may be made two strips snugly together, and properly by those skilled in the art without departing enclosing the interior mechanism. This from the spirit of my invention. In certain mechanism comprises an operating and lock- cases I have preferred to omit the offset por- 95 ing member 9, which is slidably mounted in tion 20 of the fingers 13, and form that porthe casing, and has an operating handle 10, tion of the fingers straight, as indicated in by means of which the member may be slid Fig. 7. Also it is sometimes desirable to in the casing a limited amount. The handle omit the lips 16 and 18, of the opening 17, and form the edges of the opening 17 as in- 100 dicated in Fig. 7, the lips being merely the edges of a slot cut in the edge of the member 14. Also the lug 11 and the stop 12 may be omitted if desired, as the fingers 13 prevent withdrawal of the operating member 9 105 from the casing, even when the lug and stop are omitted.

In order to fasten the binder to the back of the binder covers I provide lugs 21 on the casing member 7. The interior mecha- 110

nism is all positioned snugly together and ger having a portion substantially parallel enclosed in the casing in such a manner that with said axis arranged to rest on one of said none of the parts can become misplaced and lips when said member is in one position, 25 so that the operating member 9 works suffi- thereby locking the holder in its correspond-5 ciently snugly to give a suitable snapping ing position. effect to the rings as they pass into their 2. In a binder a casing, a pair of prong closed or open position. Hence the seg- holders mounted in said casing for move-10 tions, thus obviating the annoyance result- mounted for longitudinal movement in said 15 tages of such means are eliminated.

I claim as my invention:

pair of lips fixed to said holder, a member mounted for movement parallel with the In testimony whereof, I hereunto set my 20 axis of rotation of said holder, and a finger hand. fixed to said member and extending at an angle to said axis between said lips, said fin-

ments will not ordinarily stop partly closed ment around their longitudinal axes, a non- 30 or open, but will snap into the limiting posi-resilient operating and locking member ant from the segments being improperly casing substantially parallel with and adjaplaced when the sheets are to be removed cent said holders, a pair of lips fixed to each or opened. And as this is accomplished of said holders, and a finger projecting an- 35 without any resilient means the disadvan- gularly from said member and passing between each of said pairs of lips, whereby when said member is moved horizontally 1. In a binder a rotary prong holder, a said holders are rotated and are locked in the positions assumed.

ERIK L. KRAG.