

(No Model.)

2 Sheets—Sheet 1.

J. T. GALE.
TEMPORARY BINDER.

No. 515,330.

Patented Feb. 27, 1894.

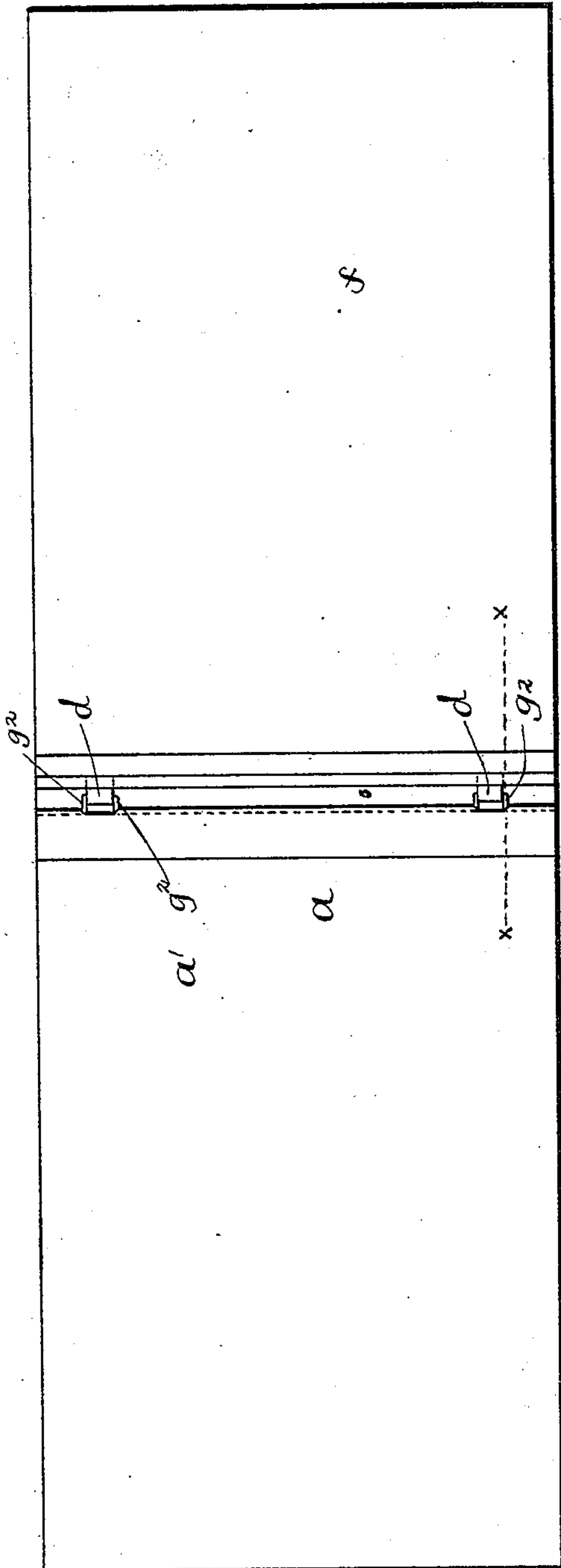


Fig. 1

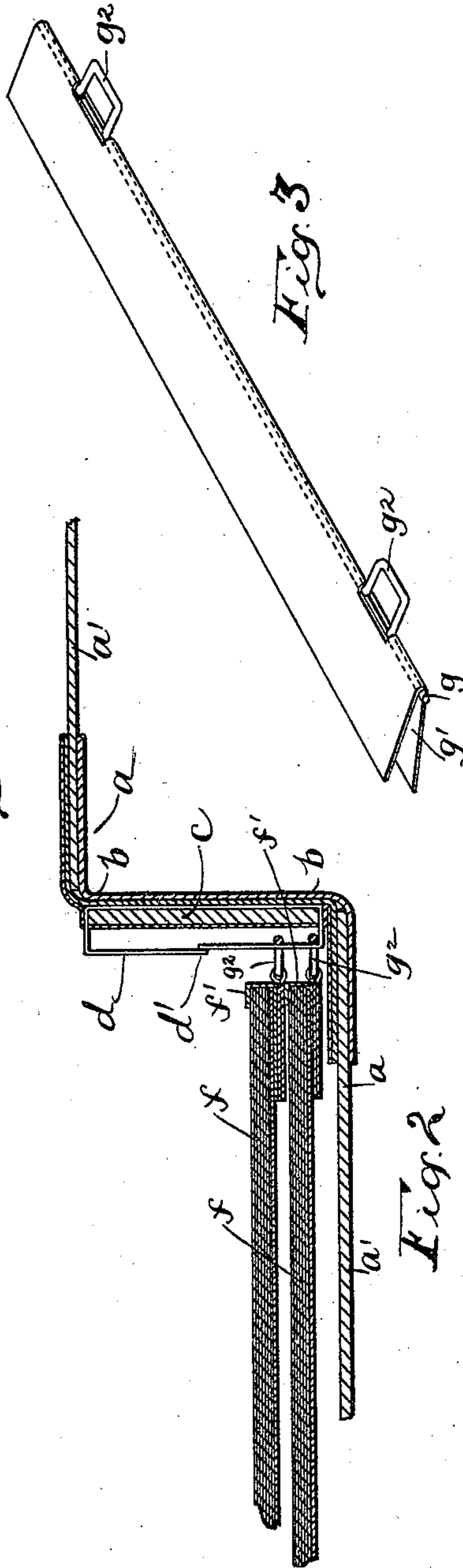


Fig. 2

Fig. 3

WITNESSES:

H. B. Bradshaw
A. L. Phelps

INVENTOR

JOHN T. GALE

BY

Staley and Shepherd

ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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TEMPORARY BINDER.

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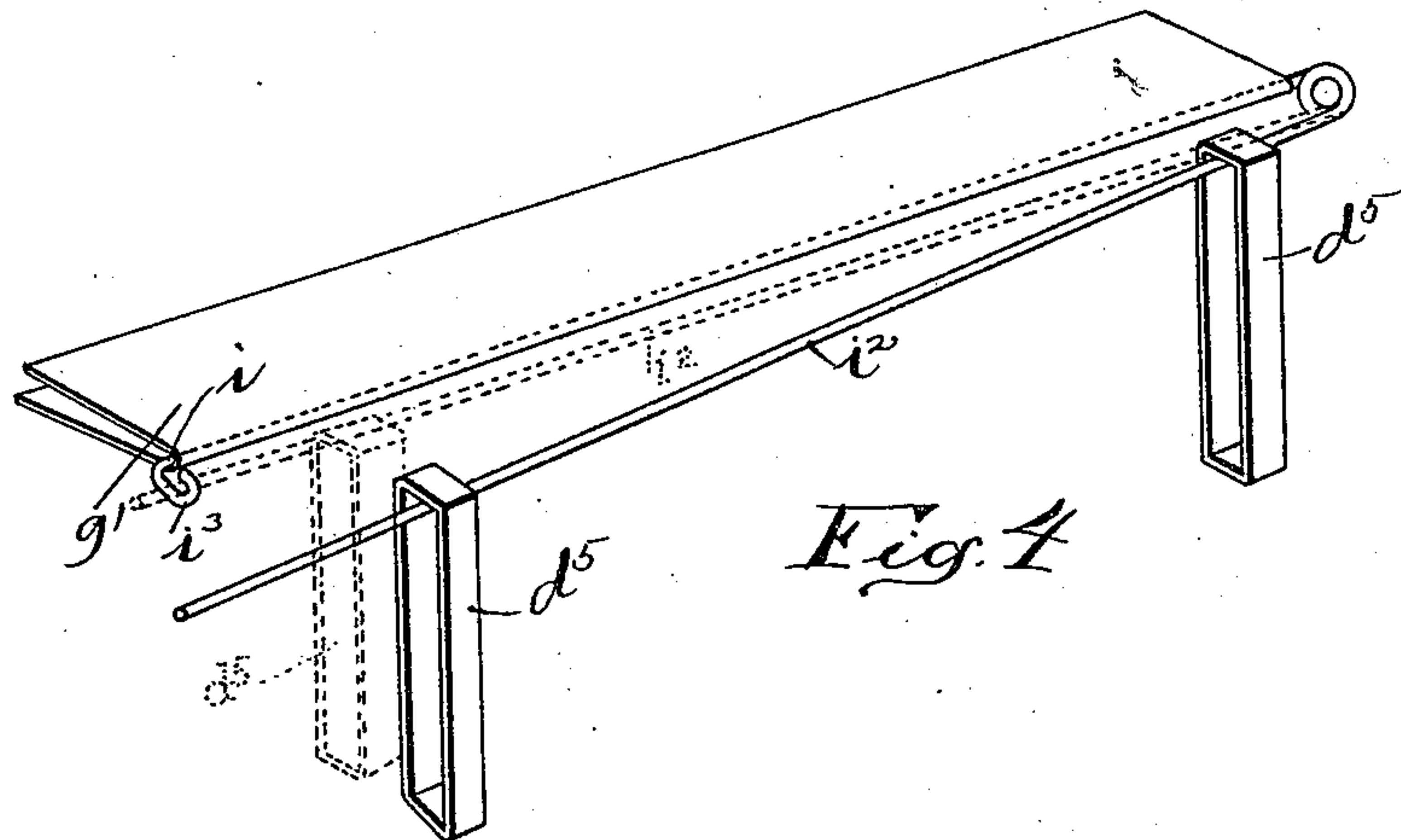


Fig. 4

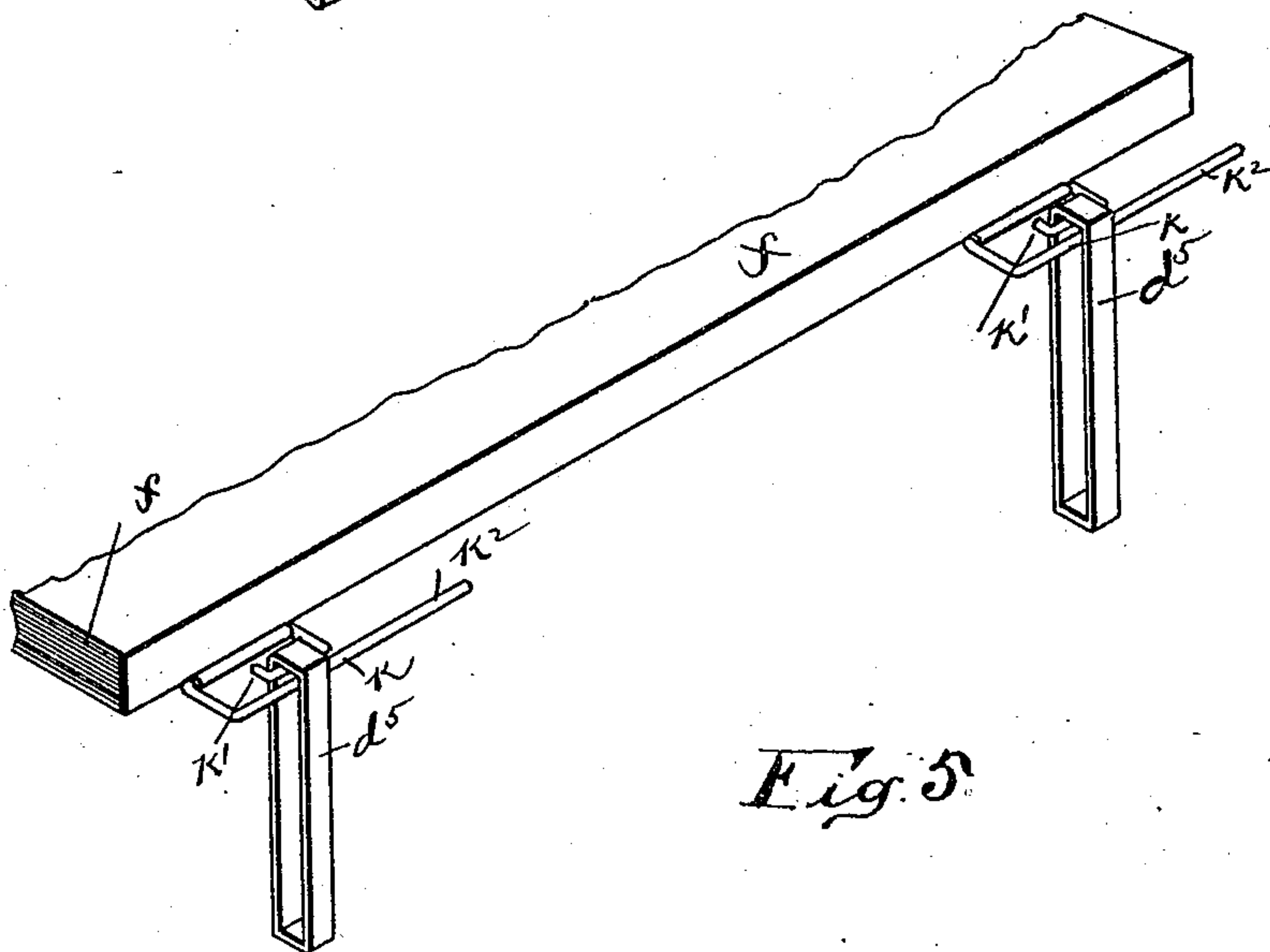


Fig. 5

WITNESSES:

H. B. Bradshaw
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INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN T. GALE, OF COLUMBUS, OHIO.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 515,330, dated February 27, 1894.

Application filed July 3, 1893. Serial No. 479,433. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. GALE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Temporary Binders, of which the following is a specification.

My invention relates to the improvement of temporary binders and has particular relation to that class of temporary binders in which pads or blocks formed of temporarily attached sheets of paper are detachably bound within a suitable cover.

The objects of my invention are to provide an improved binder of this class of superior construction and arrangement; to so construct the same as to facilitate the connection and removal of the pads with and from the cover and to produce other improvements which will be more specifically pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a face or plan view of my improved binder showing the cover thrown open. Fig. 2 is an enlarged sectional view of the central portion of the same taken on line $x x$ of Fig. 1. Fig. 3 is a detail view in perspective of one of the pad end strips. Fig. 4 is a similar view of the pad end strip showing in full and dotted lines a modification in the manner of connecting the latter with the binder cover and Fig. 5 is a detail view in perspective of the rear end portion of one of the pads showing another modification in the manner of forming a connection between the pad and cover back or binder.

Similar letters refer to similar parts throughout the several views.

a represents the binder which has the form substantially of a book cover and consists in the cover sides a' , the inner ends of which are hinged or connected by a cover back b made flexible at its points of connection with the cover sides a' . The inner side of the back b is stiffened throughout the center of its length by a suitable stiffening piece c which is firmly secured by any desirable means to said back.

d represents spring keepers each of which as shown consists of a strip of spring metal bent to form an oblong rectangular frame or

body, the ends of said strip meeting and slightly overlapping each other at or near the center of one of the longer sides of said keeper as indicated at d' . One of these keepers d is secured to the inner side and adjoining each end of the binder back b , said keepers being supported vertically thereon and having their longer and closed sides embraced between the stiffening piece c and the back b .

f represents the paper pads or blocks which consist of suitable printed forms or paper blanks, the inner and corresponding ends of which are temporarily united, said united ends being embraced by a suitable binding strip f' glued or otherwise secured thereto in the usual manner.

g represents a horizontal wire one of which is bound to the rear end of the pad f , said wire being preferably held in place by means of a flat strip of flexible material g' which is secured to the under side of each of said pads. In the wire g is formed near each end thereof a staple shaped projection g^2 . Owing to the spring character of the keepers d the overlapping ends of the keepers are held against each other by spring tension. The method of connecting the pads with the keepers consists in bringing the loops or staple projections g^2 of the wire g in contact with the inner arms of the forward portions of the keepers d pressing the latter inward and slipping the projections g^2 into the keepers between the overlapping ends thereof. In this manner it will be seen that a number of the pads may be readily and effectively connected with the binder cover and that the spring contact of the overlapping ends of said binders will prevent any tendency of the pads becoming detached therefrom accidentally.

By the construction and manner of operation herein described, it will be seen that any desired number of pads which may be contained within the binder or cover may be readily connected therewith and that any one of said pads or the remnants thereof may be readily removed by bringing its staple projections g^2 opposite the upper arms of the outer portions of the keepers and pressing said upper spring arms outward.

As indicated in Fig. 4 of the drawings I may secure to the strip g' the permanent arm or member of an elongated safety pin i , the

spring arm or member of which is indicated at i^2 and which may be made to engage with or pass through keepers d^5 , the latter being secured to the binder back in the manner described for the keepers d and being formed of a continuous metallic strip as indicated in Figs. 4 and 5 of the drawings. It is evident that in case of the employment of the safety pin catch the pads may be separated from the binder by releasing the arm i^2 of the pin from the usual catch i^3 of the latter and then drawing the pad out laterally.

As indicated in Fig. 5 of the drawings I may substitute for the wire projections g^2 catch projections k each of the latter consisting of a piece of wire one end of which is bent substantially in the form of a square coil k' , the latter being secured laterally to the rear end portion of the pad f . The unbent or uncoiled portion k^2 of each of these catches extends in a direction parallel with the rear end of the pad and is adapted to be detachably engaged with the keepers or links d^5 as is also the inner end of the coil.

It will be observed that the herein described binder is of simple and comparatively inexpensive construction and will be of great utility as a convenient support for interchangeable pads of printed forms, blanks, &c.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a temporary binder the combination with the cover portion a consisting of the sides a' and connecting back b , of elongated links or keepers vertically supported on the inner face of said back, strips g' adapted to hold paper blocks or pads f and wire catch projections thereon adapted to be detachably engaged with said keepers or links substantially as and for the purpose specified.

2. In a temporary binder the combination with a cover portion consisting of the sides a' and connecting back b , of vertical spring links or keepers d secured on the inner side of said back, the projecting portions of said keepers being separated, said separated portions slightly overlapping each other as described, strips g' adapted to hold paper blocks or pads f , wires on said strips and catch projections on said wires adapted to engage as described with said links substantially as and for the purpose specified.

JOHN T. GALE.

In presence of—

C. C. SHEPHERD,
H. B. BRADSHAW.