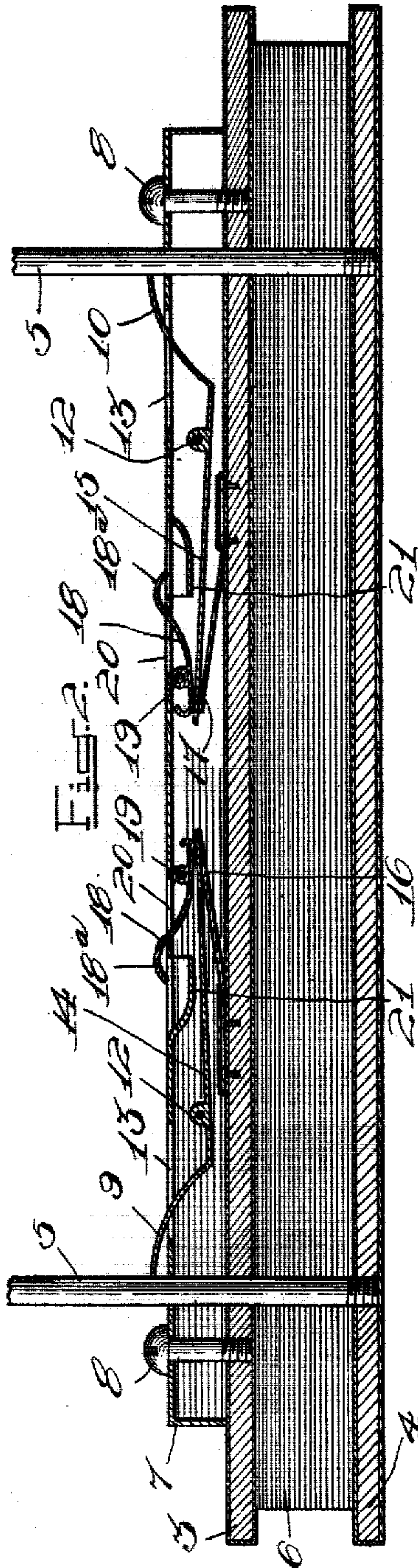
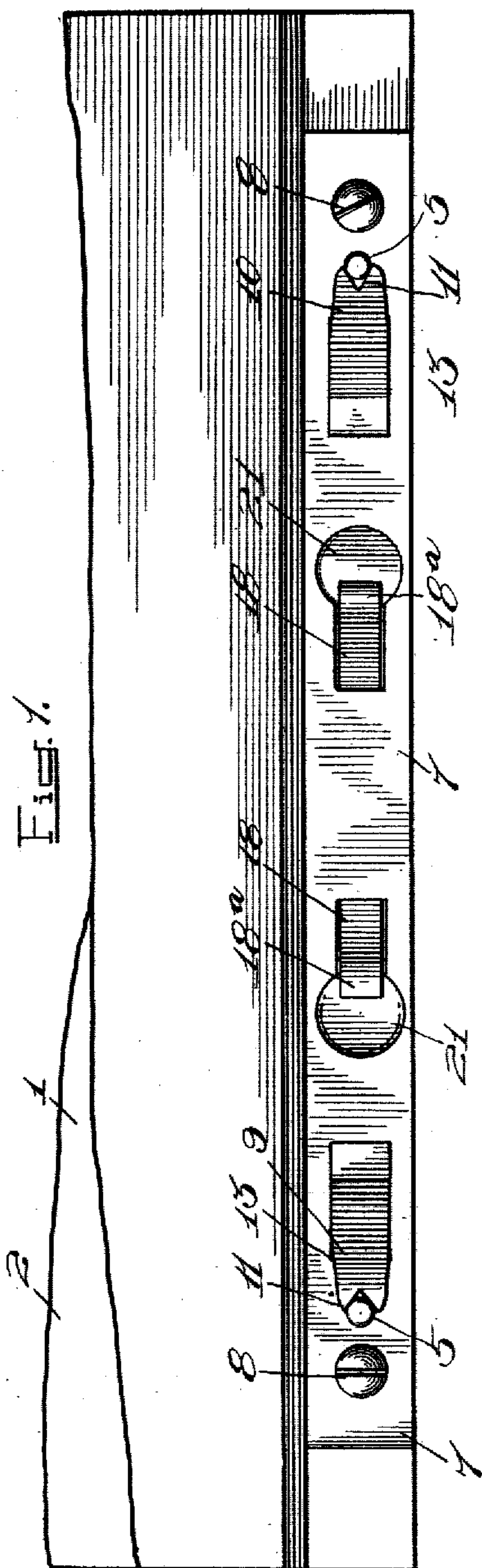


A. FAIFER.
 TEMPORARY BINDER.
 APPLICATION FILED OCT. 27, 1904.



Witnesses:
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UNITED STATES PATENT OFFICE.

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TEMPORARY BINDER.

No. 825,447.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANTHONY FAIFER, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Temporary Binders, of which the following is a full, clear, and exact specification.

My invention relates to that class of temporary binders usually comprising two back members or covers having hinged sections in one of which impaling-pins are secured and pass through the other which is provided with grips or clamps for holding said other section in place on the pins; and my invention has for its primary object to provide an improved and simple form of temporary binder capable of being manipulated with one hand, so that the same hand may be employed for releasing the dogs or grips and lifting the cover while the other hand is free for other use.

With the described ends in view my invention consists in certain features of novelty in the construction, combination, and arrangement of parts by which the said object and certain other objects hereinafter appearing are attained, all as fully described with reference to the accompanying drawings, and more particularly pointed out in the claims.

In the said drawings, Figure 1 is a plan view of my improved temporary binder, and Fig. 2 is a vertical transverse section thereof.

1 2 are the top and bottom covers, which are respectively provided with the aforesaid hinged sections 3 4, and in the bottom one of these sections are screwed or otherwise secured impaling-pins 5, which pass loosely through the top hinged section 3 and upon which pins the leaves 6 may be impaled or withdrawn when the section 3, with its cover 1, is lifted off. Secured to the upper face of the section 3 and extending longitudinally thereof is a casing 7, which, if desired, may be composed of thin sheet metal struck up in the form of an inverted box and fastened to the section 3 by means of screws 8 or other suitable devices, and through this casing 7 the pins 5 also pass.

9 10 are gripping-dogs which are provided in their upper ends with V-shaped notches 11 or notches of other suitable form partially embracing and gripping the pins 5, respectively, and these dogs are so arranged that

they do not prevent the section 3 from being pushed downwardly on the pins 5, but upward movement of such section is restricted by the direct thrust of the dogs against the pins. To this end the dogs are mounted upon horizontal pivot-pins 12, which are located considerably below the point of their engagement with the pins, and consequently while the dog may be readily deflected in an upward direction as the section 3 is pushed downwardly any upward movement of the section results in forcing the notched end of the dog directly against and substantially transversely of the impaling-pin. The upper side of the casing 7 is provided with apertures 13, through which the dogs 9 10 project, respectively, and the lower ends of the dogs are formed with levers 14 15, under which are interposed leaf-springs 16 17 or springs of any suitable form, secured directly to the top of the section 3, so as to lift the contiguous ends of the levers 14 and thereby keep the dogs 9 10 in firm engagement with the impaling-pins. Arranged to bear upon the upper end of each of the levers 14 15 is an operating-lever 18, which is supported within the casing 7 near its lower end on a horizontal pivot 19 and projects through an aperture 20 in the top of the casing, where it may be given a slight downward curve, as shown at 18^a, to facilitate the engagement of the thumb or finger therewith. The extremity of the downwardly-curved portion 18^a may be flush with or below the surface of the casing 7, so as not to constitute an objectionable projection, and in order that the finger or thumb of the operator may readily engage with it the casing is formed with a countersink 21 at a point below this curved end.

The operating-levers 18 are located, preferably, equidistant from the center of the binder and at a distance apart convenient to the thumb and finger of one hand, so that the operator may grasp both levers at one time and by pressing the fingers toward each other the ends of the levers will be slightly raised, which will depress their free ends and simultaneously release the dogs 9 10 from engagement with the impaling-pins, thereby enabling the operator to release the dogs and lift the cover by one and the same hand and at the same time and to again lock or bind the section 3 in place by simply releasing his hold upon the levers 18 and pressing down-

wardly upon said section. It will also be seen that the operating-levers have comparatively short arms bearing against the comparatively long arms of the levers 14 15, thereby constituting very powerful compound levers for releasing the dogs and rendering this one-hand operation feasible and convenient, while at the same time by giving the springs 16 17 a bearing against the extreme outer ends of the long levers 14 15 I am enabled to employ flat and comparatively weak springs for producing the requisite pressure against the impaling-pins, and consequently the mechanism may be compact and neat and located within the casing 7.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. In a temporary binder, the combination with the two covers and the impaling-pins secured to one and projecting through the other, of two gripping-dogs arranged between the impaling-pins, on said latter cover, and engaging with said pins for holding the covers against relative movement on the pins, pivoted levers by which said dogs are supported and operated, and independent operating-levers arranged between the pins and accessible simultaneously to one hand of the operator, and impinging the aforesaid levers for oscillating the latter and releasing said dogs.

2. In a temporary binder, the combination with the top and bottom covers and the impaling-pins secured to one and passing through the other, of gripping-dogs mounted upon the top cover and engaging said pins for holding the top cover against movement thereon, elongated levers projecting toward each other for supporting and operating said dogs, and independent operating-levers arranged between said pins and accessible simultaneously to one hand of the operator, and having short arms engaging said elongated levers for releasing said dogs, the upper ends of said operating-levers being turned downwardly to form a handle or lift whereby to raise said top cover when the dogs are released.

3. In a temporary binder, the combination with the top and bottom covers and the impaling-pins secured to one and passing through the other, gripping-dogs impinging

said pins and extending downwardly therefrom toward each other, pivots upon which said dogs are supported respectively, located at points below the point of engagement between the pins and the dogs, springs for pressing said dogs into contact with the pins, and independent operating-levers arranged upon said top cover for releasing said dogs.

4. In a temporary binder, the combination with the top and bottom covers and the impaling-pins secured to one and passing through the other, of a casing secured to the top cover and through which said pins pass, said casing having apertures and countersinks adjacent to said apertures, gripping-dogs pivoted within said casing and engaging said pins respectively, and operating-levers pivoted within said casing for releasing said dogs and projecting through said apertures and over said countersinks respectively.

5. In a temporary binder, the combination with the top and bottom covers and the impaling-pins secured in one and passing through the other, of pivoted dogs secured to the top cover and having elongated levers, flat springs secured under said levers and bearing upwardly against the free ends thereof and pivoted independent operating-levers bearing upon said first levers for depressing them against the resistance of said springs.

6. In a temporary binder, the combination with a top and bottom cover, and impaling-pins carried by one cover and passing through the other, of a casing secured to the top cover and through which the pins pass, gripping-dogs pivoted within the casing, one end of said dogs projecting through the casing and disposed to engage the pins, levers pivoted within the casing, with one end engaging the other end of the dogs, the other end of the levers projecting through the casing and bent to form handles, and springs secured to the cover within the casing and engaging the dogs adjacent the point of contact of the levers therewith, the free ends of the levers being adapted to be raised to depress the other ends to overcome the pressure of the springs and release the dogs.

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Witnesses:

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