

C. SPIRO.

PAPER FILE.

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913,316.

Patented Feb. 23, 1909.

Fig. 1.

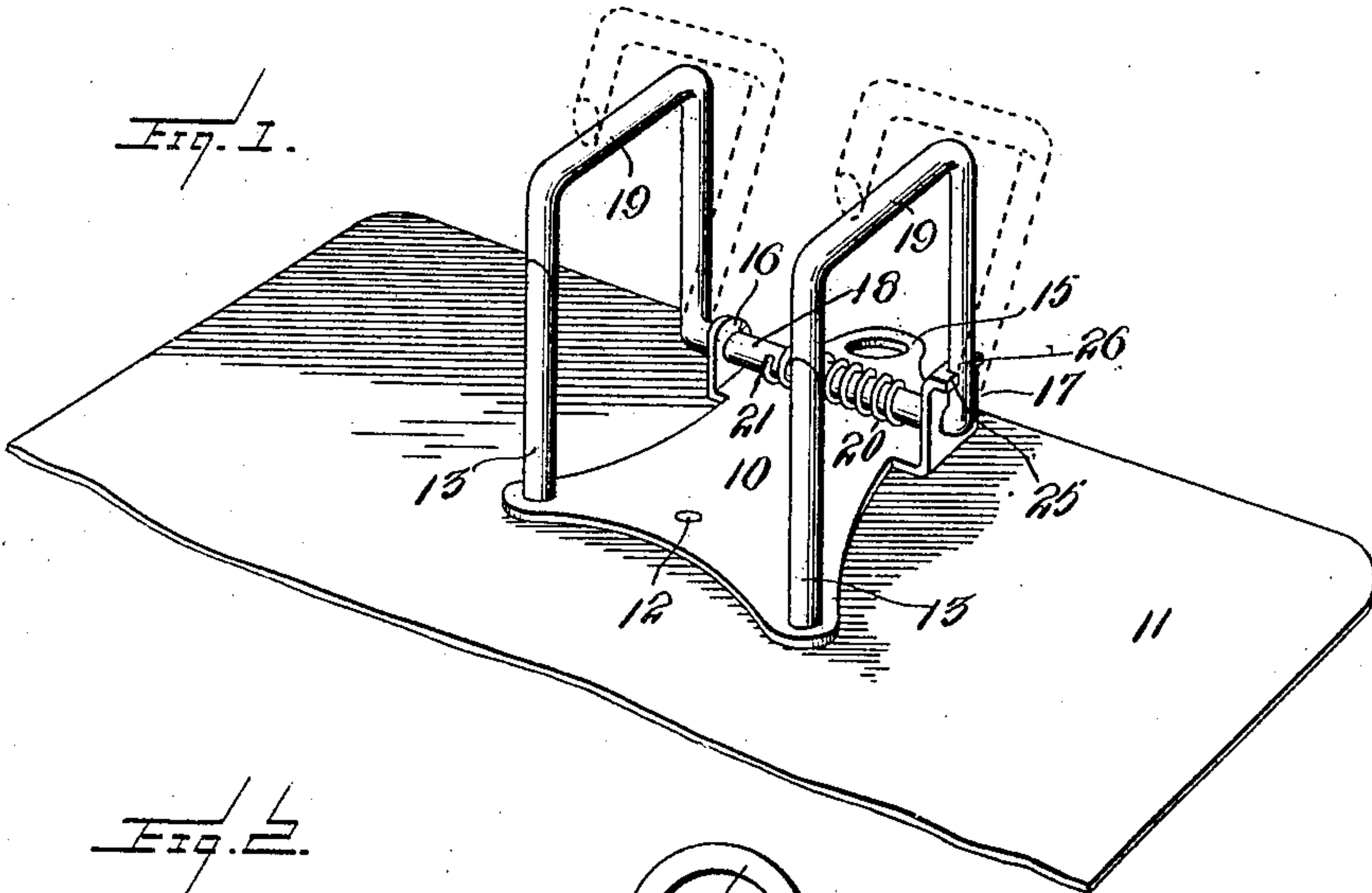


Fig. 2.

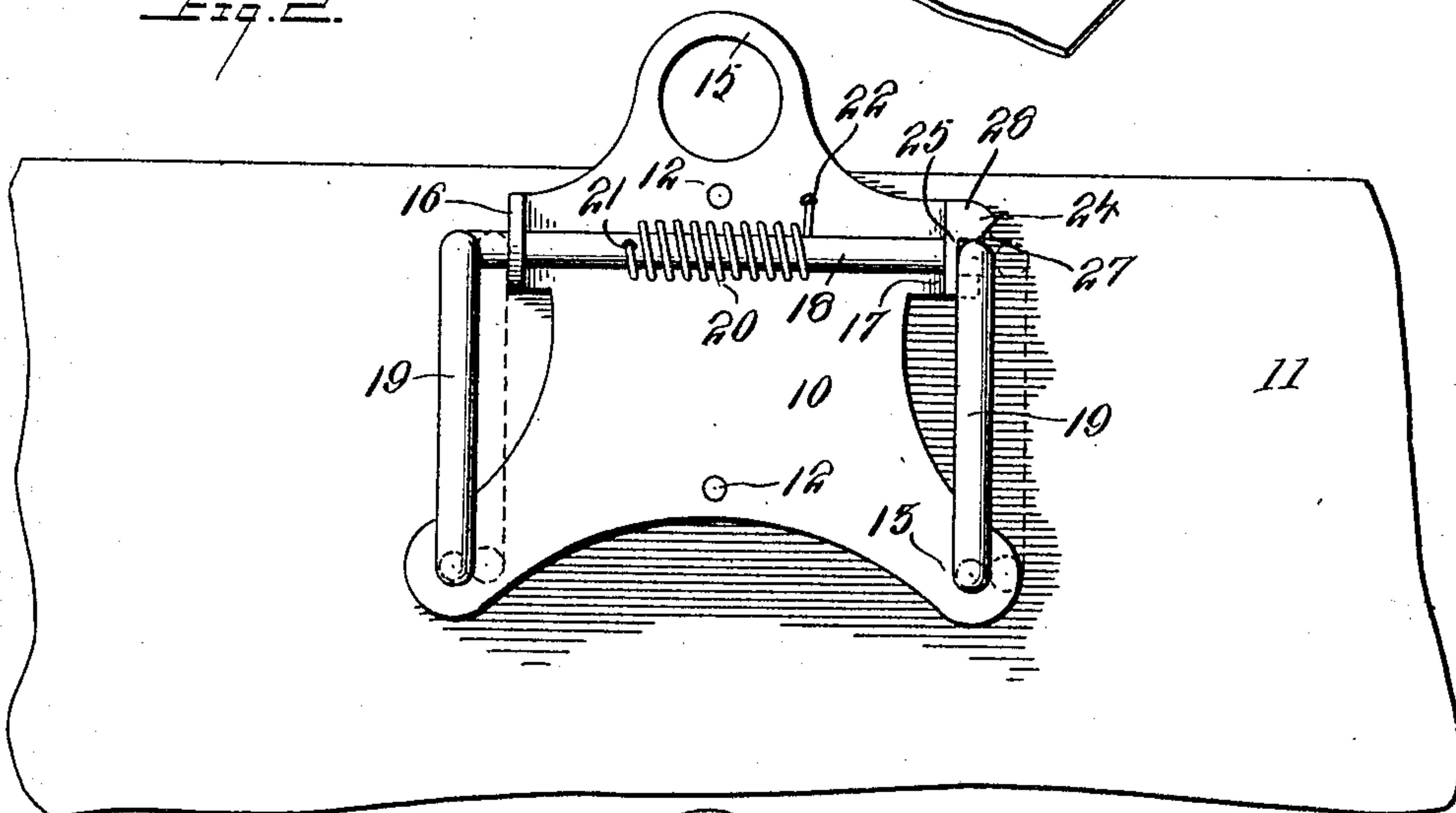


Fig. 3.

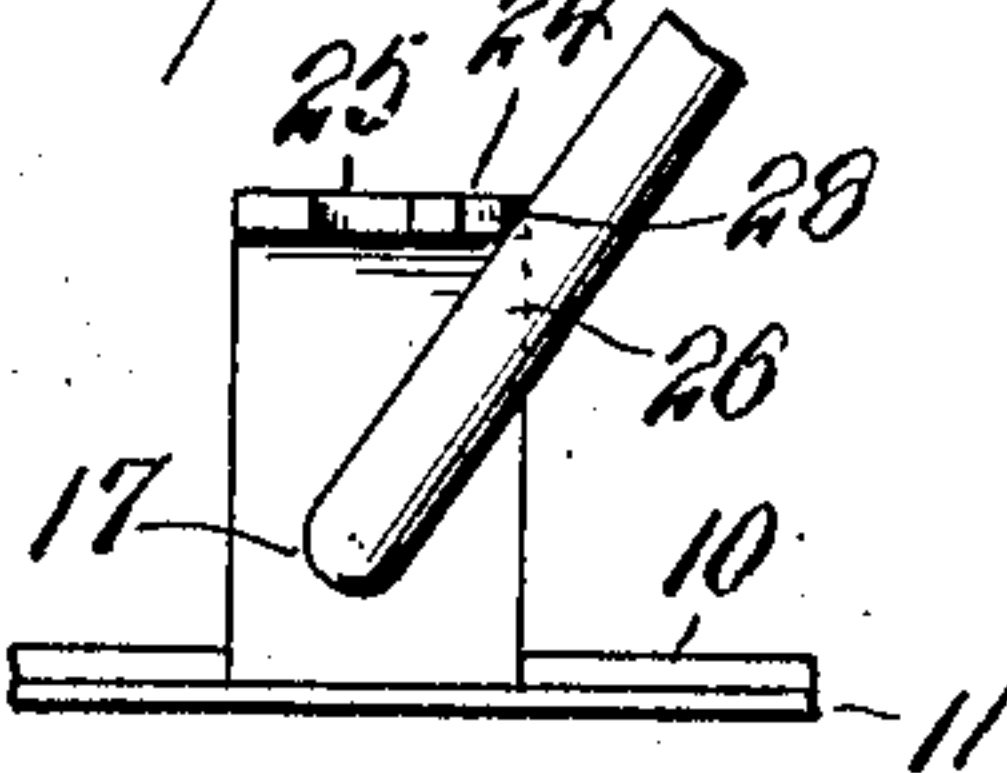


Fig. 4.

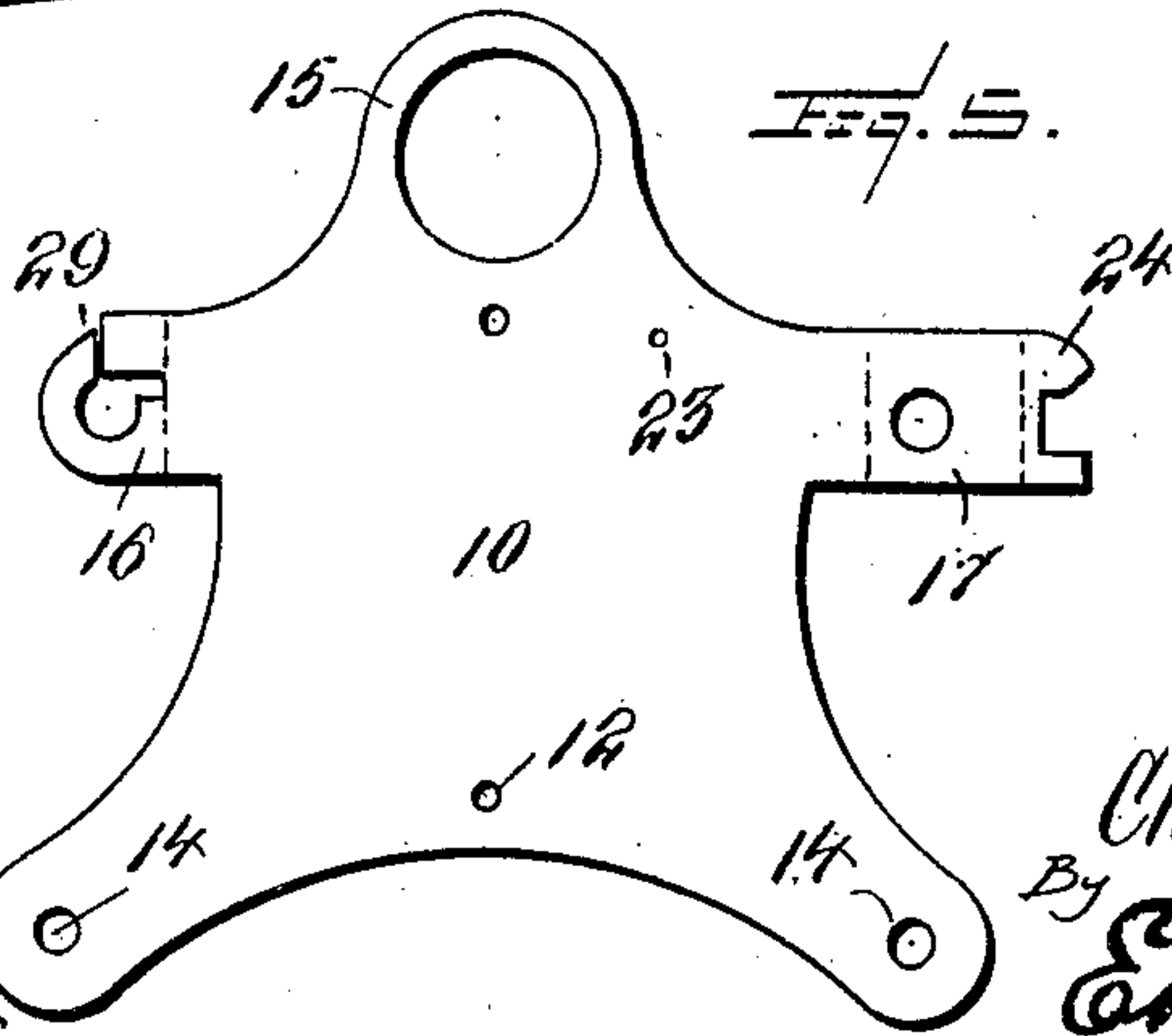
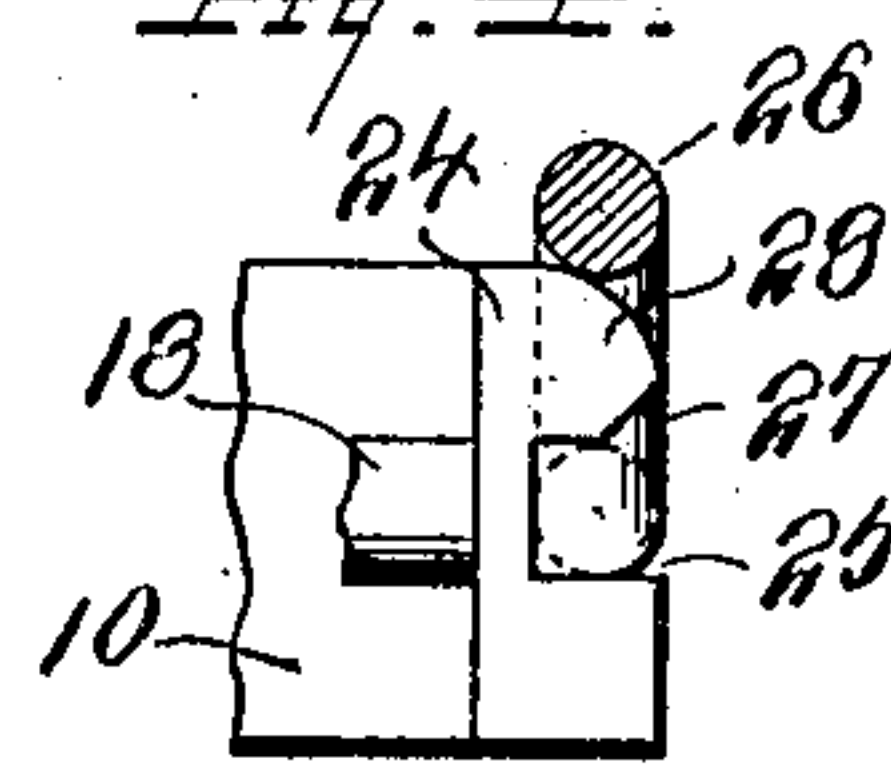


Fig. 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## PAPER-FILE.

No. 913,316.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed September 2, 1908. Serial No. 451,283.

*To all whom it may concern:*

Be it known that I, CHARLES SPIRO, citizen of the United States, residing at New York, county of New York, and State of New York, have invented certain new and useful Improvements in Paper-Files, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a paper file, and particularly to a construction embodying filing pins and cooperating transfer pins movable relative to the filing pins.

The invention has for an object to provide a novel and improved means for mounting the transfer pins in order to permit a pivotal movement thereof and also a movement longitudinally of their axis both movements being controlled by a unitary spring attached to the pin pivot and base.

A further object of the invention is to provide a novel and improved construction of lug for locking the transfer pins when closed and for holding said pins under tension when in their open position.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a perspective of the invention; Fig. 2 is a top plan; Fig. 3 is a detail elevation of the locking and holding lug; Fig. 4 is a plan of this lug with a transfer pin in section; Fig. 5 is a plan of the supporting blank for the several parts.

Like numerals refer to like parts in the several views of the drawing.

The numeral 10 designates the base plate of the file which may be of any desired construction or configuration, but is for convenience here shown as formed of a single blank. This plate is secured to any desired object, for instance, a file board 11 and may be attached thereto by rivets 12 or other means. The base 10 is provided with filing pins 13 rigidly mounted in apertures 14 at opposite corners thereof, while a portion of the base is extended beyond the file board forming an eye or hanger 15 by which the parts may be conveniently handled. The base is provided at opposite sides with pivoting lugs 16 and 17 adapted to receive a support or rock shaft 18 bearing at its opposite ends angularly disposed transfer pins 19 which may be of any preferred construction. This rock shaft is of greater length than the distance between its pivoting lugs and mount-

ed for movement in said lugs longitudinally of its axis, said movement being controlled and the shaft held in the position shown in Fig. 2 by means of the coiled tension spring 20 mounted on the rock shaft and having its end 21 secured to said shaft, while its opposite end 22 is secured in aperture 23 upon the base. This single tension spring therefore exerts a tension upon the movement of the rock shaft longitudinally and also when the same is swung or oscillated in the opening action on the transfer pins so that both of these functions are accomplished by a single device.

For the purpose of retaining the transfer pins locked when closed and holding them in the position shown by dotted lines in Fig. 1, when opened, a lug 24 is provided as shown in Figs. 3 and 4. This lug is formed with a locking recess 25 adapted to receive and engage a vertical portion 26 of one transfer pin and hold it in locked position. A slight longitudinal movement of the rock shaft causes the vertical portion 26 thereof to engage the inclined face 27 of the holding lug and it rides thereon backward onto the face 28 on said lug in contact with which it is held under tension by the spring 29 on the rock shaft. A slight pressure against the transfer pins when in this position, as shown in Figs. 3 and 4, causes them to slide forward on the face 28 and be closed by the tension of the spring.

As shown in Fig. 5, the base, pivoting lugs and holding lug may be formed from a single blank, the lugs 16 and 17 thereof being bent upward at a right angle to the base, while the lug 24 is bent outward from the base at a right angle to the portion 17. The lug 16 is provided with a slotted portion 29 which permits the introduction of the rock shaft therein.

In the operation of this file the transfer pins are normally locked in closed position, as shown by full lines in Fig. 1, and a slight longitudinal movement of the pivot brings the vertical portion of the transfer pins into contact with the inclined face on the holding lug permitting it to ride thereon in the continued longitudinal movement until it reaches the retaining face at the rear of the lug in which position it is held under tension of the spring. A slight movement only is necessary to release the transfer pins when open, and they are automatically closed by the spring, both the swinging and longitudinal move-



ment thereof being controlled by the single spring as hereinbefore described.

This provides a simple, efficient and economical construction which can be very easily and quickly operated, the closing thereof being automatically effected, while the transfer pins may be held in their opened position when desired.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a file, a base provided with file pins, transfer pins pivotally mounted upon the base and for movement longitudinally of their axis, and a spring secured to said pivot at one end and engaging said base at its other end and arranged to automatically swing the transfer pins toward the file pins and resist longitudinal movement of the transfer pins in one direction.
2. In a file, a base provided with file pins, transfer pins pivotally mounted upon the base and for movement longitudinally of their axis, a spring secured to said pivot at one end and engaging said base at its other end and arranged to automatically swing the transfer pins toward the file pins and resist longitudinal movement of the transfer pins in one direction, and fixed means for retaining said transfer pins in open position under tension of said spring.
3. In a file, a base provided with file pins, transfer pins pivotally mounted upon the base and for movement longitudinally of their axis, a spring secured to said pivot at one end and engaging said base at its other end and arranged to automatically swing the transfer pins toward the file pins and resist longitudinal movement of the transfer pins in one direction, and a holding lug carried by the pivotal bearing of the transfer pins and having an inclined face at the rear of the pivot of the transfer pins to engage a portion of said pins.
4. In a file, a base provided with file pins, transfer pins pivotally mounted on said base and for movement longitudinally of their axis, a spring secured to said base and pivot and adapted to exert tension in both the swinging movement to close and the longitudinal locking movement of the transfer pins, and a lug having a locking seat for said transfer pins when opened.

5. In a file, a base provided with file pins, pivoted transfer pins mounted upon said base, and a coil spring surrounding the pivot of said transfer pins and secured thereto at one end and to the base at its opposite end and arranged to automatically cause engagement of the file and transfer pins.

6. In a file, a base provided with file pins, transfer pins pivotally mounted in lugs upon said base and for movement longitudinally of their axis therein, and a lug extending laterally from one of said base lugs and having a locking seat adapted to engage one of said pins when closed and an inclined locking face at the rear of the pivot to engage one of said transfer pins when opened.

7. In a file, a base provided with file pins, transfer pins pivotally mounted in lugs upon said base and for movement longitudinally of their axis therein, a retaining lug extended laterally at one side of one of said pivot lugs and having oppositely inclined faces extending from the locked position of the transfer pins to their open position, and a spring secured to said pivot at one end and engaging said base at its other end and arranged to automatically swing the transfer pins toward the file pins and resist longitudinal movement of the transfer pins in one direction.

8. In a file, a base provided with file pins, transfer pins mounted upon said base for pivotal movement and movement longitudinally of their axis, a lug extended laterally of the base and provided with a locking recess, a retaining lug having an inclined face extending outward from said recess and an oppositely inclined face extending toward the rear of the base, and a tension spring connected to the pivot of said transfer pins to normally hold the same in closed and locked position.

9. A blank for a file base having means for supporting file pins at opposite sides thereof and a supporting eye, pivoting lugs at opposite sides of said blank, and locking and retaining lugs at the free end of one of the pivoting lugs.

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

CHARLES SPIRO.

Witnesses:

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GEORGE STERR.