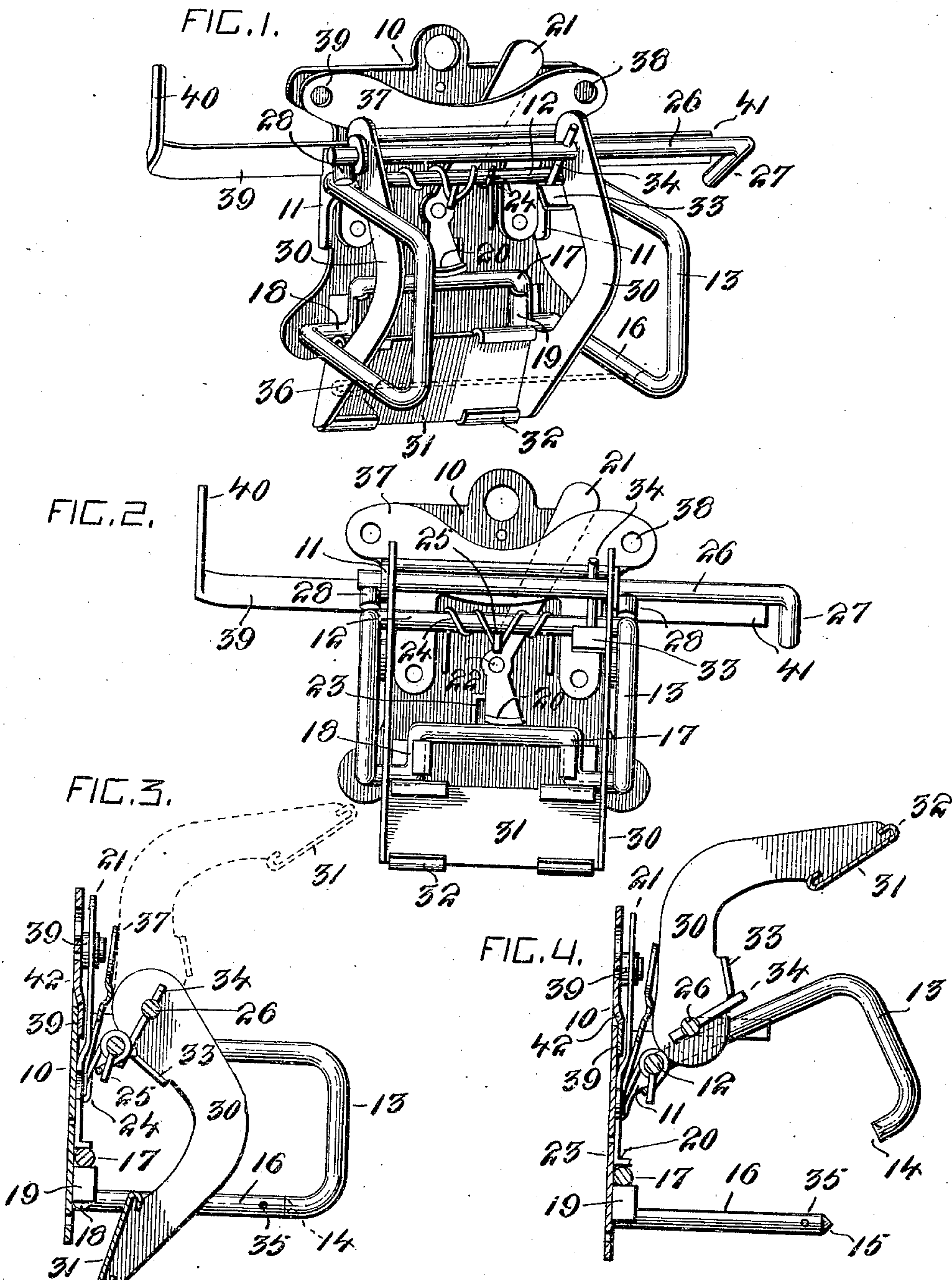


956,216.

Patented Apr. 26, 1910.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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PAPER-FILE.

956,216.

Specification of Letters Patent. Patented Apr. 26, 1910.

Application filed December 9, 1909. Serial No. 532,277.

*To all whom it may concern:*

Be it known that I, CHARLES SPIRO, a citizen of the United States, residing at New York, county of New York, 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 file and transfer pins in connection with a pivoting holding clip.

The invention has for an object to provide a novel and improved construction by which the holding clip will be raised in the movement of the locking device which contacts with the transfer pins and said clip is also capable of movement independent of said lock device.

A further object of the invention is to provide a novel and improved construction of punch mechanism disposed to be operated by contact of the clip frame therewith as said frame is swung from its holding position.

A further object of the invention is to provide a novel construction and arrangement of the file pins by which they may be clamped into position upon the base by means of a cam lever or readily removed therefrom with the papers contained thereon.

Other and further objects and advantages of the invention will be hereinafter 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 vertical section showing the parts in holding position; and Fig. 4 is a similar view with the clip and transfer pins opened.

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

The numeral 10 designates the base plate which may be of any desired construction or configuration and attached to any preferred form of filing device. This plate is formed at opposite sides with upwardly bent pivoting lugs 11 in which the horizontal shaft 12 which carries the transfer pins or wires 13 at each end is mounted. These pins are provided with a tapering socket 14 at their free ends adapted to guide the same into proper seated position upon the conical ends 15 of the file pins 16 as

shown in Figs. 3 and 4. These file pins may be mounted upon the base in any desired manner but if it be preferred to provide for their removal with the papers filed thereon, they may be formed with a connecting cross bar 17 having an angular portion 18 at the base of each of the pins 16. This portion is bent at substantially a right angle and retained upon the base by means of the lugs 19 therefrom. The file pins may be removed from the base by a bodily movement toward the transfer pins after the latter have been opened and in order to normally prevent such movement, the cross bar is engaged by the cam face 20 carried by the lever 21 which is pivoted upon the base at 22. When this lever is swung from the position shown in Fig. 2, it permits a rearward movement of the cross bar 17 carrying the file pins. If it be desired to retain them upon the base for an extended time, the cam lever may be omitted and the cross bar held in proper position by bending upward the lug 23 formed from the base. The shaft 12 of the transfer pins is held under tension to open these pins by means of the spring 24 which surrounds this shaft and engages a projection 25 thereon, while the opposite ends of the spring bear in contact with the base plate.

For the purpose of holding and locking the transfer pins in contact with the file pins, a rock shaft 26 is mounted in the pivoting lugs 11 at the rear of the rock shaft 12 and above said rock shaft. The shaft 26 has an operating handle 27 at one end and is formed with projections 28 disposed in alinement with the transfer pins and by this cam action forces these pins into closed position and places the spring 24 under tension.

Upon the shaft 26, the arms 30 of the clip 31 are pivotally mounted so as to permit a free swinging of the clip without actuating said shaft 26. The name plate of this clip is provided with the usual holding ears 32 by which a label may be secured thereon. One of the clip arms 30 is provided with an inwardly extending contact 33 which is adapted to be engaged by a pin or projection 34 extending laterally from the shaft 26 so that when said shaft is rocked to release the transfer pins, the pin 34 will engage the contact 33 and raise the clip carried thereby so that the file pins are ready



to receive papers. If desired, these file pins 16 may be apertured as shown at 35 in order to receive a retaining wire 36 or other securing device to prevent accidental displacement of the papers upon the file pins either when secured upon the base or removed therefrom.

At the rear of the base, a punch plate 37 is secured and provided with apertures 38 adapted to cooperate with the punches 39 mounted upon the base in alinement therewith. As before described, the clip is mounted for free movement so that it may be opened without interfering with the file pins and when in its rearward position, as shown by dotted lines in Fig. 3, engages the punch plate 37 and acts as a lever to perform the punching operation. Cooperating with this punch is a gage bar 39 provided with an angle plate 40 at one end adapted to engage the side of the papers to be punched in order to determine the proper position of the apertures therein. The opposite end 41 of this gage bar forms a handle portion. The bar 39 may be slidingly secured to the base in any desired manner, for instance held in contact with the base of the pivoting lugs 11 by means of the upwardly bent spur 42 on the base plate as shown in Fig. 3.

In the operation of the invention when the parts are in the position shown by Fig. 1 the papers upon the file pins are held in close contact by the clip which also forms a label for the file. When it is desired to punch other papers to be filed this clip may be swung backward to act as the punch lever without disturbing the locked position of the transfer pins in contact with the file pins, as shown by dotted lines in Fig. 3. The clip can be retained in this position and the transfer pins opened by operating the shaft for that purpose while if the clip is in contact with the papers the movement of the transfer pins by the spring tension when released from their locking device is simultaneous with that of the clip which is moved by the pin from the locking shaft. It will also be seen that the file pins are readily clamped in position and can be conveniently removed and replaced whenever desired. The gage bar provides means for properly disposing the papers in the punch so that the edges of the same when filed will be in proper position.

It will therefore be seen that the invention provides a simple, efficient and economically constructed paper file embodying in one structure the advantages of both a clip file and transfer pin file and wherein the clip is adapted to form a punch lever and is independent in its movement from the transfer pins when in locked position but can be used to move these pins into such position by its engagement with the locking shaft pin.

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

1. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rockshaft having means to engage and operate said transfer pin, a clip frame pivoted upon said rockshaft, and means upon said rockshaft to operate said clip frame.

2. In a paper file, a base, file pins thereon, cooperating transfer pins connected by a pivoting shaft, a parallel rockshaft having a projection in alinement with one transfer pin to move said transfer pins into contact with said file pins, and a spring carried by the pivoting shaft of said transfer pins and engaging said base.

3. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage said transfer pin and hold it in contact with said file pin, a spring carried by the pivot of said transfer pin and engaging said base, a pivotally mounted clip frame, and means carried by said rock shaft to engage said frame.

4. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage said transfer pin and hold it in contact with said file pin, a spring carried by the pivot of said transfer pin and engaging said base, a pivotally mounted clip frame, and means carried by said rock shaft to engage said frame in the opening movement of said transfer pin.

5. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage said transfer pin and hold it in contact with said file pin, a spring carried by the pivot of said transfer pin and engaging said base, a pivotally mounted clip frame, means carried by said rock shaft to engage said frame, and a punch plate mounted at the rear of said transfer pin and adapted to be operated by the clip frame.

6. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage said transfer pin and hold it in contact with said file pin, a spring carried by the pivot of said transfer pin and engaging the base, a pivotally mounted clip frame, means carried by said rock shaft to engage said frame, a punch plate mounted at the rear of said transfer pin and adapted to be operated by the clip frame, and means for removably supporting said file pin upon the base.

7. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage said transfer pin and hold it in contact with said file pin, a spring carried by the pivot of said transfer pin and engaging said base,



a pivotally mounted clip frame, means carried by said rock shaft to engage said frame, a punch plate mounted at the rear of said transfer pin and adapted to be operated by the clip frame, and a gage bar slidably mounted upon said base and provided with an angular plate at one side of said clip frame.

8. In a paper file, a base provided with pivoting lugs, file pins carried by said base, transfer pins pivoted in said lugs, a rock shaft pivoted in said lugs, and projections carried by said shaft in alinement with the transfer pins to lock the same in contact with the file pins.

9. In a paper file, a base provided with pivoting lugs, file pins carried by said base, transfer pins pivoted in said lugs, a rock shaft pivoted in said lugs, projections carried by said shaft in alinement with the transfer pins to lock the same in contact with the file pins, a clip frame pivoted upon said rock shaft and having a contact plate, and a projection from said rock shaft to engage said plate.

10. In a paper file, a base provided with pivoting lugs, file pins carried by said base, transfer pins pivoted in said lugs, a rock shaft pivoted in said lugs, projections carried by said shaft in alinement with the transfer pins to lock the same in contact with the file pins, a clip frame pivoted upon said rock shaft and having a contact plate, and a pin carried by said rock shaft and disposed beneath said plate when the transfer pins are in locked position.

11. In a paper file, a base provided with pivoting lugs, file pins carried by said base, transfer pins pivoted in said lugs, a rock shaft pivoted in said lugs, projections carried by said shaft in alinement with the transfer pins to lock the same in contact with the file pins, a clip frame pivoted upon said rock shaft and having a contact plate, a projection from said rock shaft to engage said plate, and a spring punch plate extended to the rear of the pivot of said clip frame to be engaged by said frame.

12. In a paper file, a base, file and transfer pins mounted thereon, means for automatically opening said transfer pins, means for closing said transfer pins, and a clip frame pivotally mounted for movement with said transfer pins in one direction and for movement independent of the transfer pins in either direction.

13. In a paper file, a base, a file pin thereon, a cooperating pivoted transfer pin, a rock shaft having means to engage and operate said transfer pin, a clip frame pivoted upon said rock shaft, means upon said rock

shaft to operate said clip frame, and a spring punch plate mounted upon the base and extended to the rear of said rock shaft to be engaged by said frame when used as a lever thereon.

14. In a paper file, a base, a clip frame pivotally mounted thereon, a spring punch plate mounted upon the base and extended to the rear of the pivot of said frame to be engaged thereby when said frame is used as a lever thereon, and a gage bar slidably mounted upon said base and provided at one end with an angle plate disposed beyond and at one side of the punch plate.

15. In a paper file, a base, file pins having a connecting bar slidably mounted for removal from said base, lugs carried by said base to engage said connecting bar, and means for retaining said bar in position.

16. In a paper file, a base, file pins having a connecting bar slidably mounted for removal from said base, lugs carried by said base to engage said connecting bar, and a lever pivoted upon said base to engage said bar.

17. In a paper file, a base, file pins having a connecting bar slidably mounted for removal from said base, lugs carried by said base to engage said connecting bar, and a lever pivoted upon said base and provided with a cam face to contact with said bar.

18. In a paper file, a base, file pins having a connecting bar slidably mounted for removal from said base, lugs carried by said base to engage said connecting bar, and a bendable lug formed on said base to engage said bar.

19. In a paper file, a base, file pins having at their base horizontally disposed angular portions connected by a crossbar, transfer pins cooperating with said file pins, and means carried by said base plate to engage said angular portions.

20. In a paper file, a base, file pins having at their base horizontally disposed angular portions connected by a crossbar, transfer pins cooperating with said file pins, and lugs bent upwardly from said base plate to engage said angular portions.

21. In a paper file, a base plate, apertured file pins removably mounted thereon, cooperating transfer pins pivoted upon said plate, and a retaining wire extended through the apertures of said file pins.

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

CHARLES SPIRO.

Witnesses:

EDWD. E. JONES,  
FRANK THORLIN.