C. SPIRO.

CLIP FILE.

APPLICATION FILED JUNE 6, 1908.

913,315. Patented Feb. 23, 1909.

Fig. 1.

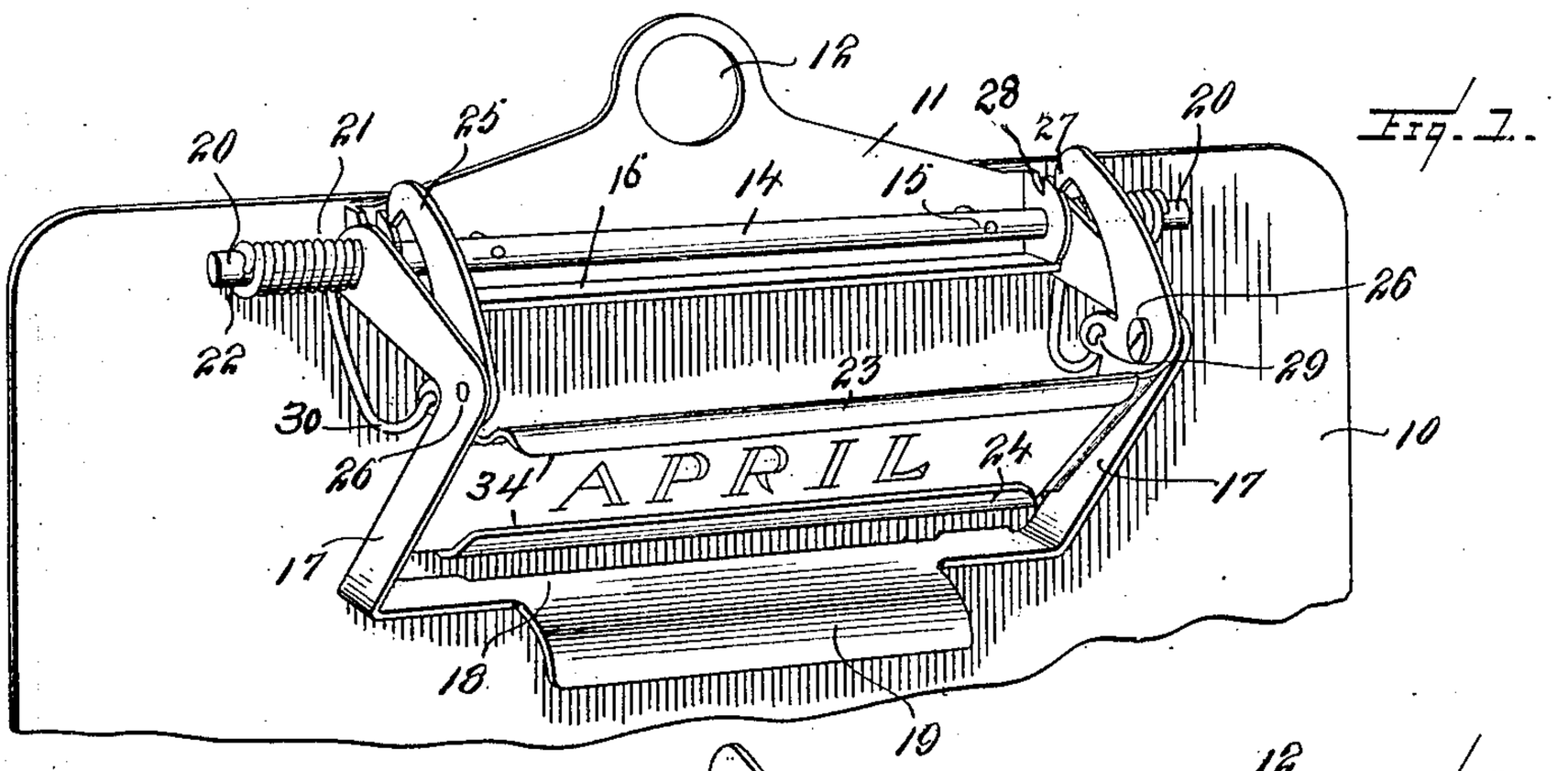
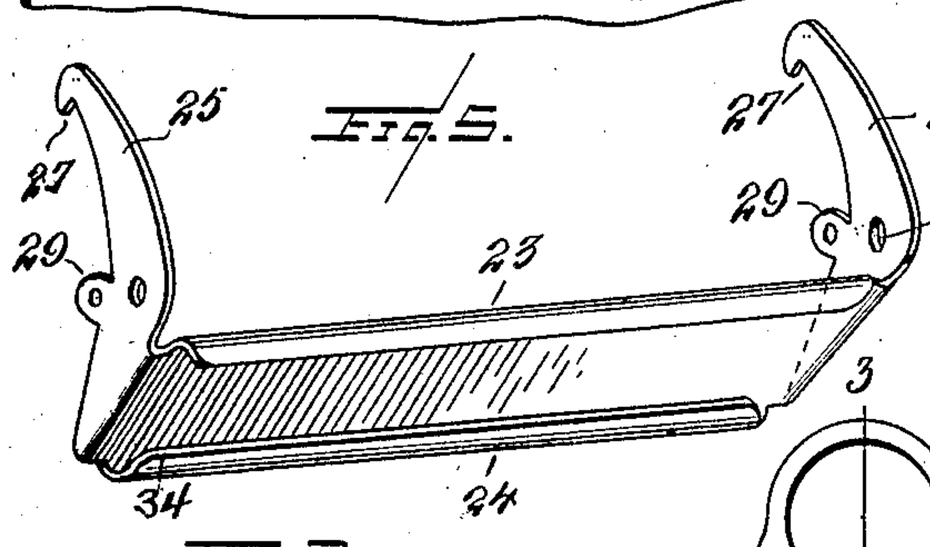


Fig. 5.



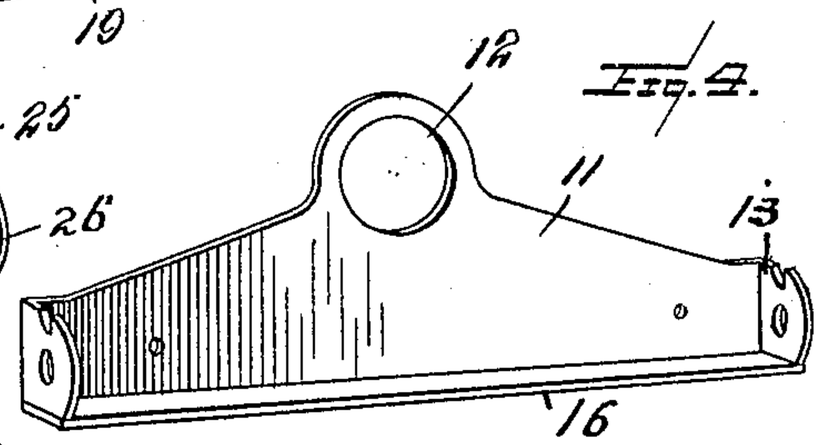


Fig. 4.

Fig. 2.

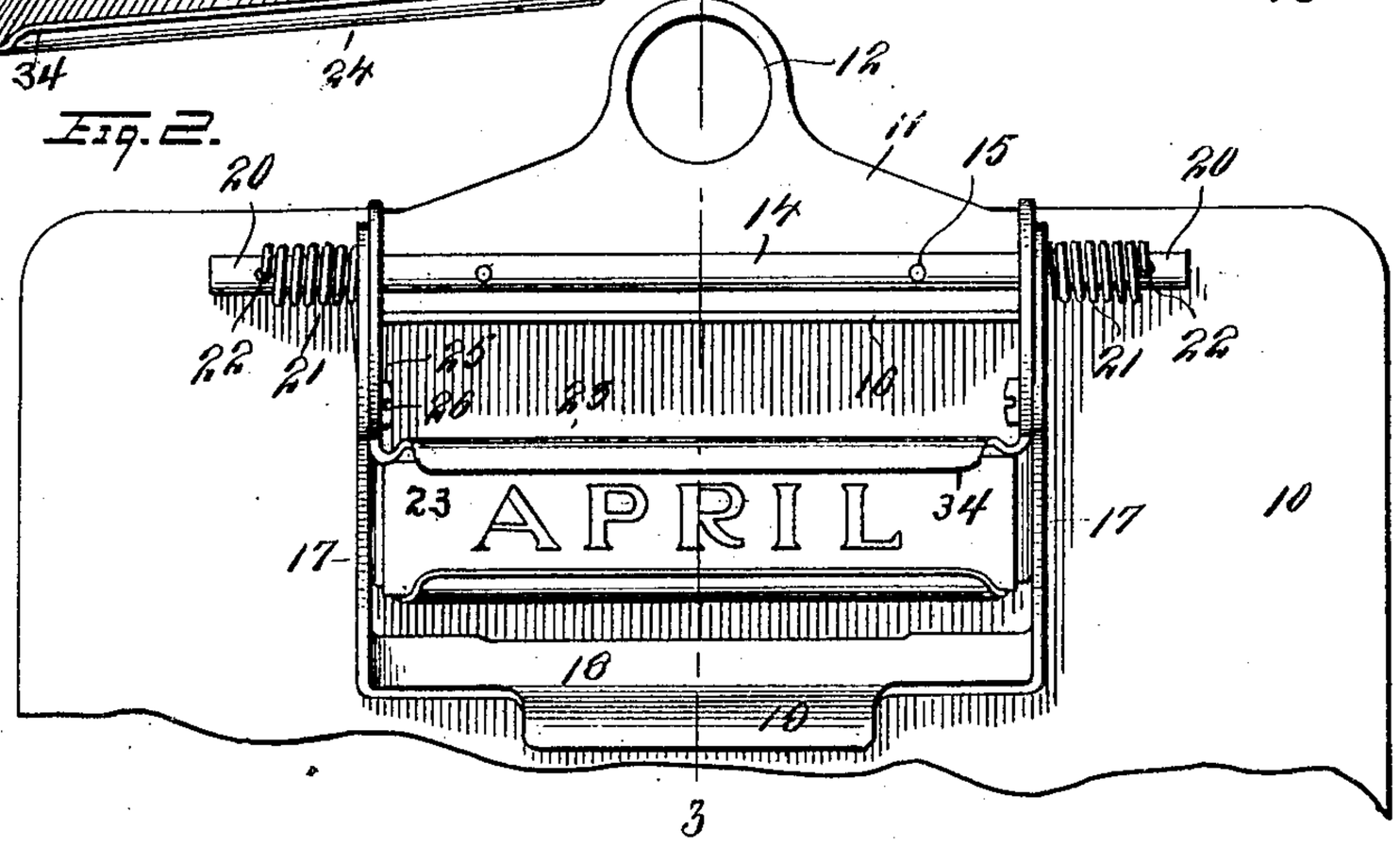
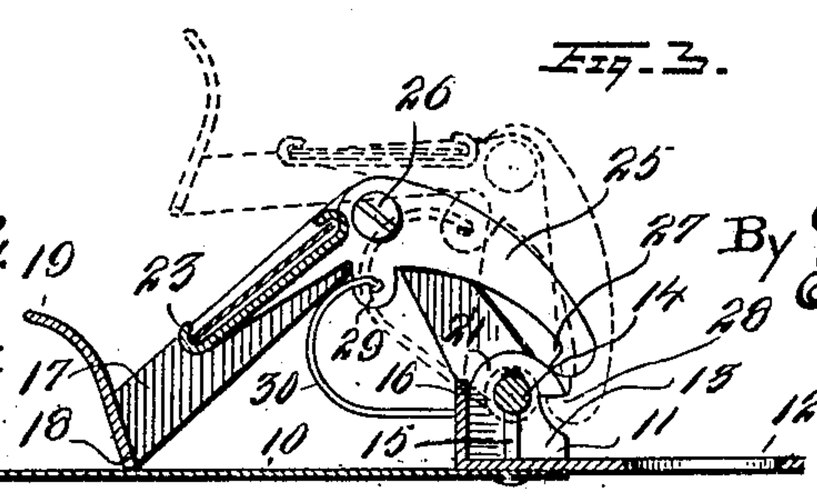


Fig. 3.



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CLIP-FILE.

No. 913,315. Specification of Letters Patent. Patented Feb. 23, 1909.

Application filed June 6, 1908. Serial No. 437,179.

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, and State of New York, have invented certain new and useful Improvements in Clip-Files, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a clip file, and particularly to a spring pressed clip adapted to be held in released position.

The invention has for an object to provide a novel and improved construction of the clip supporting means embodying a pivoted frame adapted to engage a fixed part to retain the clip in raised or open position and adapted to be released by pressure upon a portion of said frame.

A further object of the invention is to provide a clip frame having a fixed tooth or projection at its pivot in connection with a pivotally mounted plate carried by the clip and having a pawl adapted to be automatically thrown into engagement with said tooth and to be released therefrom by pressure upon the plate.

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 view of the invention; Fig. 2 is a plan thereof; Fig. 3 is a section on the line 3—3, Fig. 2; Fig. 4 is a detail perspective view of the pivoting plate; Fig. 5 is a similar view of the label plate and pawls carried thereby.

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

The numeral 10 designates the file board which may be of any desired size or character, preferably of metal. Upon this board the supporting plate 11 is secured and is provided with an eye 12 by which it may be suspended. At each end of the plate lugs 13 are bent upwardly therefrom and provided with apertures adapted to receive the rod 14 which is held against movement by the rivet pins 15 extending upwardly through the board and plate 11 and also through the rod to which they are attached. Longitudinally of the pivoting plate at its inner edge the flange 16 is turned upward serving to form a filing abutment and also to brace the pivoting plate and parts mounted thereon.

Pivotally mounted upon the rod 14 is the clip frame 17 which is preferably of angular form, as shown in Figs. 1 and 3 so that the forward edge 18 thereof engages the papers to be held upon the file, and this edge is provided with a finger hold 19 curved outwardly therefrom by which the clip may be raised. The rod 14 is extended at 20 beyond the clip 17 and is provided with a coil spring 21 secured at one end 22 to the rod and having its opposite end connected to the label plate 23 in any desired manner so as to produce a downward pressure upon the edge 18 of the clip.

A desirable form of this label plate is shown in Fig. 5 wherein the front portion 24 thereof extends between the sides of the clip 17 and is overturned as at 34 to hold any desired label in position, while the end portions 25 are bent at a right angle to the front and pivotally mounted at 26 upon the clip 17. Beyond this clip these portions 25 are provided with a pawl having a hook 27 adapted to engage a coöperating projection or hook 28 upon the lug 13 of the plate 11. At any desired point the end portion of the label plate may be provided with an apertured lug 29 with which the extended end 30 of the tension spring 21 is engaged. As here shown the spring is curved upward into segmental form and therefore exerts both a forward and upward tension upon the label plate causing the pawl to constantly ride upon the curved face of the projection 13 and to engage the ratchet thereof, while also exerting the required downward tension upon the clip frame to hold it in engagement with the board thereof.

In the operation of the invention it will be seen that when the clip is raised in the position shown by dotted lines in Fig. 3 it causes the pawl to ride upon the curved face of the lug until it reaches the tooth or ratchet thereof with which it automatically engages thus retaining the clip in open or raised position. In order to release it from this position it is only necessary to press downward upon the label plate thus swinging the pawl upon its pivot against the tension of the spring and releasing it from the ratchet

so as to permit the clip to engage and constantly hold the papers upon the file board. This construction and arrangement permits the clip to be raised and held up while the papers are being arranged as required and to be released by a slight pressure while the structure of spring is adapted to exert the necessary pressure both upon the clip and the pawl pivoted thereon to insure the proper automatic engagement under tension of both of these parts.

The invention therefore presents a simple, economically constructed and very efficient form of clip file adapted to be constructed entirely of metal and not liable to injury or disarrangement in use.

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

1. A clip file comprising a fixed plate provided with a holding device, a clip frame pivotally mounted upon said plate, a pivoted lever upon said frame formed with a holding arm, and a push plate disposed upon said frame to engage said arm with the holding device.

2. A clip file comprising a plate provided with a holding device, a clip frame pivotally mounted upon said plate, a pivoted crank arm having a push plate disposed upon said frame, and a spring acting upon one end of said arm to automatically engage it with the holding device.

3. In a clip file, a fixed plate provided with a holding device, a rectangular clip frame pivotally mounted upon said plate, and a releasing plate pivotally mounted upon the clip frame and provided at each end with means to interlock with said holding device,

4. In a clip file, a plate provided with a holding device, a clip frame pivotally mounted upon said plate, a frame mounted upon said clip frame and provided with means to engage said holding device, and a tension spring for said clip frame connected to the frame pivoted thereon to cause automatic engagement with the holding device.

5. In a clip file, a releasing plate having parallel overturned edges, and angularly disposed pawls at each end thereof provided with hooked free ends.

6. In a clip file, a plate provided with a bearing lug having holding teeth, a clip frame pivotally mounted upon the opposite ends of said plate, and pawls mounted upon the clip frame to engage said teeth and having a connecting push plate disposed within said frame.

7. In a clip file, a plate provided with a holding tooth, a clip frame pivotally mounted upon said plate, a pawl pivotally mounted upon the clip frame to engage said tooth, and a tension spring extending from the pivot of the clip frame to said pawl.

8. In a clip file, a plate provided with a holding tooth, a clip frame pivotally mounted upon said plate, a pawl pivotally mounted upon the clip frame to engage said tooth, a tension spring extending from the pivot of the clip frame to said pawl, and a releasing plate disposed within the clip frame and connected to said pawl.

9. In a clip file, a plate provided with a holding tooth, a clip frame pivotally mounted upon said plate, a pawl pivotally mounted upon the clip frame to engage said tooth, a tension spring extending from the pivot of the clip frame to said pawl, and a releasing plate disposed in said frame and provided with parallel overturned edges to retain a label therein.

10. In a clip file, a plate provided with holding lugs at each end, a rod extending through said lugs, a clip frame pivoted upon said rod, a pawl pivoted upon said clip frame to engage one of said holding lugs, and a spring mounted upon said rod and having one end connected to an angular extension from said pawl.

11. In a clip file, a plate provided with holding lugs at each end, a rod extending through said frame, a clip frame pivoted upon said rod, a pawl pivoted upon said clip frame to engage one of said holding lugs, a spring mounted upon said rod and having one end connected to an angular extension from said pawl, and a releasing plate carried by said pawl within the clip frame.

12. In a clip file, a plate provided with a holding device, a rod mounted upon said device, a clip frame pivotally mounted upon said rod, a hook carried by the clip frame to engage said holding device, and a unitary spring mounted to exert a downward tension upon said clip frame and to hold said hook in contact with said holding device.

13. In a clip file, a supporting plate provided with a holding tooth, a clip frame pivotally mounted upon said plate, a hook pivoted upon said clip frame to engage said tooth and having an operating end at the front of said plate.

14. In a clip file, a supporting plate having angularly disposed lugs at its opposite ends each provided with a holding tooth, a clip frame mounted upon said plate, means carried by said clip frame to engage said tooth, and an angularly disposed flange from said plate extending between said lugs.

15. In a clip file, a supporting plate having angularly disposed lugs one of which is provided with a holding tooth, a pivot held against rotation upon said plate, a clip frame pivotally mounted upon said pivot, holding means carried by said clip frame to engage said tooth, and a spring secured at one end to said pivot and at its opposite end to said holding means.

16. In a clip file, a supporting plate having angularly disposed lugs one of which is pro-

vided with a holding tooth, a clip frame mounted upon said plate, holding means carried by said clip frame to engage said tooth, a rod extending through and beyond said lugs, a spring secured at one end to said rod and at the opposite end to said holding means, and a rivet extending through said plate and rod.

17. In a clip file, a supporting plate having angularly disposed lugs one of which is provided with a holding tooth, a clip frame mounted upon said plate, holding means carried by said clip frame to engage said tooth, a rod extending through and beyond said lugs and held against rotation, and a spring secured upon an extended end of said rod and connected to the holding means upon said clip frame.

18. In a clip file, a supporting plate, a clip frame mounted thereon, holding means upon said plate, a releasing plate provided at opposite ends with angularly disposed hooks adapted to engage said holding means, and a pivotal mounting for said releasing plate upon said frame at the end portions thereof.

19. In a clip file, a supporting plate, a clip frame mounted thereon, holding means upon said plate, a releasing plate provided at opposite ends with angularly disposed hooks adapted to engage said holding means, a pivotal mounting for said releasing plate upon said frame at the end portions thereof, and a spring extending from a fixed part to said releasing plate.

20. In a clip file, a supporting plate provided with toothed holding means, a clip frame provided at opposite ends with angularly disposed pivoting arms each having angular portions in a vertical plane and with a finger hold intermediate of said arms at the front of the frame, a hook pivoted at the apex of one of the angular arms to engage said holding means, and a tension device for retaining said hook in contact with the holding means.

21. In a clip file, a supporting plate provided with toothed holding means, a clip frame provided at opposite ends with angularly disposed pivoting arms and with a finger hold intermediate of said arms at the front of the frame, hooks pivoted at the apex of the angular arms to engage said holding means, a releasing plate connecting the hooks upon the opposite ends of the clip frame, an angularly disposed lug from said hooks, and a spring having a looped end connected with said lug to exert a downward tension upon both the clip frame and hook.

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

CHARLES SPIRO.

Witnesses:
WALTER J. SPIRO,
EDW. E. JONES.