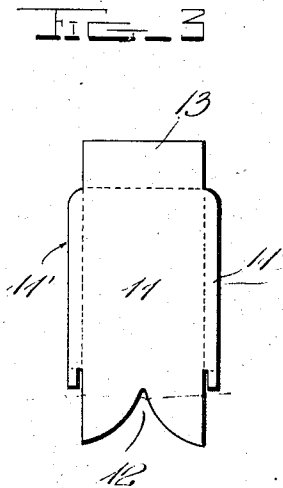
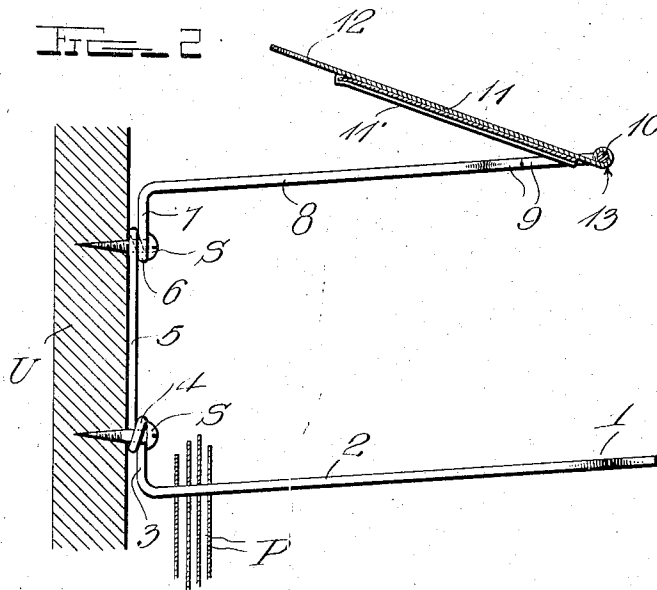
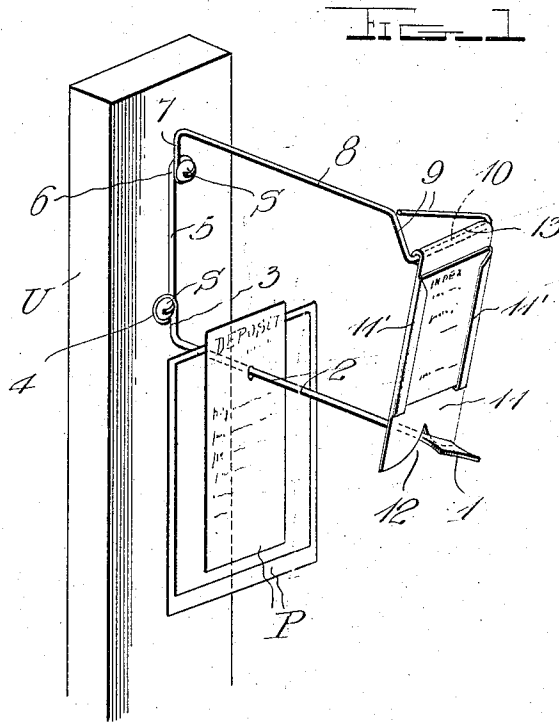


A. A. McDONALD.
 SELF LOCKING PAPER FILE.
 APPLICATION FILED JAN. 8, 1912.

1,033,915.

Patented July 30, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

ALLAN A. McDONALD, OF POTLATCH, IDAHO.

SELF-LOCKING PAPER-FILE.

1,033,915.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed January 8, 1912. Serial No. 669,990.

To all whom it may concern:

Be it known that I, ALLAN A. McDONALD, a citizen of the United States, residing at Potlatch, in the county of Latah and State of Idaho, have invented certain new and useful Improvements in Self-Locking Paper-Files; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to paper files and binders, and more especially to that class including pins which are guarded; and the object of the same is to produce a file of this character upon which a paper may be instantaneously passed or impaled and from which it will not be accidentally lost, although when desired the papers strung upon the pin may be easily removed by the operator.

This and other objects are accomplished by the construction hereinafter more fully described and claimed, and as shown in the drawings wherein—

Figure 1 is a general perspective view of this improved paper file secured to an upright and in position ready to receive a sheet of paper upon its pin, the papers already there being held in place by the guard. Fig. 2 is a central vertical section through this device with the guard thrown up over the upper arm and out of the way so as to show the position the parts may assume when the operator desires to inspect or remove the papers on the pin. Fig. 3 is a plan view of the blank from which the guard is made, the dotted lines therein showing the lines on which the same is folded in the act of making the complete guard.

In the drawings the letter U designates an upright member such as a piece of furniture to which this improved file holder is attached, or the same may be a strip forming part of a cabinet or file box within which the papers when mounted on the holder are to be stored—it being only essential that this piece be upright as illustrated in Fig. 1. The letters P conventionally designate pieces of paper which it is desired to mount upon the holder.

Coming now more particularly to the details of construction, the file itself is made of a single piece of rather stiff wire bent into substantially U-shape in side elevation, the lower arm of the U forming the pin for

puncturing or impaling the sheets of paper and the upper arm forming the support for the guard. Said lower arm is formed into a spear head 1 at its front end, from which the arm extends straight to the rear and preferably a little downward as seen at 2, then it is bent upward in substantially a right angle at 3 and formed into an eye 4 at one side of the upright, then it is continued vertically upward in a stretch 5, and formed into another eye 6 preferably disposed at the opposite side of said upright from the first eye, and from the second eye the wire is continued vertically upward and outward in substantially a right angle 7 into the arm 8 which carries the guard. For the latter purpose the front end of said arm is formed into a triangle 9 whose cross bar 10 stands at the front and about over the head of the lower arm as shown. The guard is by preference made from the blank shown in Fig. 3, and may be of tin or other light sheet metal, and after being stamped out in this shape its edges are bent up into two flanges and its upper end is bent over into an eye. The finished product then comprises a flat body 11 having side flanges 11' which with the body make up a card or label holder as seen, a V-shaped notch 12 in its lower end, and its upper end turned over into a rather long eye 13 which engages the cross bar of the triangular loop at the front end of the upper arm.

In assembling the parts of this improved paper file as above described, the wire member is attached to any suitable upright U by means of two screws S passed through its eyes as shown, and when in place thereon the pin will project forward from the upright and preferably slightly upward and the arm will also project forward and possibly upward to some extent, while the guard will hang from the front end of the triangular loop of the arm, its body inclining slightly backward as shown in Fig. 1, and its notch standing astride the pin just in rear of the head 1 as illustrated. When now it is desired to apply or impale a piece of paper upon the pin, it is simply passed over the point of the head and pushed to the rear, and in doing so the operator will swing the lower end of the guard rearward and upward around its eye so that its notched end rises off the pin and leaves the latter free for the reception of the paper. The latter then moves to the rear until it clears the lower end of the guard, when the

guard swings forward again to the position shown in Fig. 1, and the paper and the others that have preceded it are locked in place. When now it becomes desirable to
 5 remove one or more papers the head of the pin must be deflected downward by hand so that the guard may be swung forward at its lower extremity until its notch clears the head, after which it is swung over to the
 10 position indicated in Fig. 2 where its free end stands above the arm, and the operator is then at liberty to remove any or all of the papers and to replace them at leisure. After he has finished his inspection, the
 15 guard is restored to the position illustrated in Fig. 1 where it again permits the impalement of additional sheets of paper and yet prevents their withdrawal from the pin.

The entire device is extremely simple and
 20 cheap, comprising but a single piece of wire bent and formed in the shape shown and a guard made up of a single piece of light sheet metal such as tin; and the whole attached to any suitable upright by two
 25 ordinary screws.

I do not limit myself to the details of construction, nor to the sizes, shapes, proportions, finish and materials of parts; and various changes in and additions to the device as described may be made without departing from the principle of my invention.

What is claimed as new is:

1. The herein described paper file comprising a piece of wire bent into substantially U-shaped side elevation with its lower
 35 arm having a spear head at the front end and the upright portion of the wire having laterally disposed eyes for the reception of fastening screws, and a combined guard and
 40 tag-holder having its upper end pivotally

mounted in the upper arm of the wire and its lower end notched and normally engaging said lower arm behind its spear head.

2. The herein described paper file consisting of a wire member having an upright
 45 portion with means for attaching it to an upright member, an arm projecting forward from the lower end of said portion and having a spear head at its front extremity, and a similar arm projecting forward from its
 50 upper end and having a cross bar at its front extremity; and a guard of sheet metal having a transverse eye at its upper extremity loosely mounted on said bar, and a notch in its lower end adapted to normally
 55 engage said pin behind its head.

3. The herein described self-locking paper file consisting of a wire member having an upright portion with means for attaching it to an upright member, an arm projecting
 60 forward and slightly upward from the lower end of said portion and having a spear head at its front extremity, and a similar arm projecting forward from its
 65 upper end and having a triangular loop at its front extremity; and a combined guard and tag-holder consisting of a sheet metal member having a transverse eye at its upper extremity loosely mounted on the front arm
 70 of said loop, intumed flanges along the side edges, and a V-shaped notch in its lower end adapted to normally engage said pin behind its head.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ALLAN A. McDONALD.

Witnesses:

C. V. CARR,

C. A. WILKINS.