H. F. CLARK.

PAPER FASTENER.

APPLICATION FILED OCT. 30, 1912.

1,233,983. Patented July 17, 1917.

Fig. 1

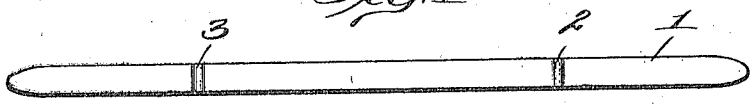


Fig. 2.

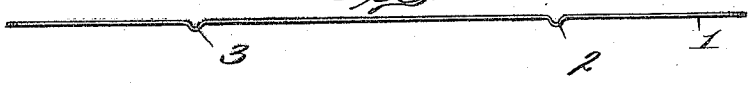


Fig. 3

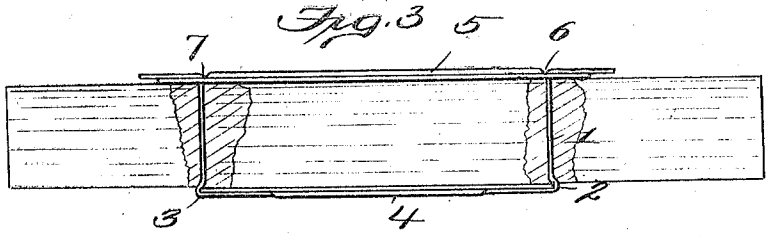


Fig. 4

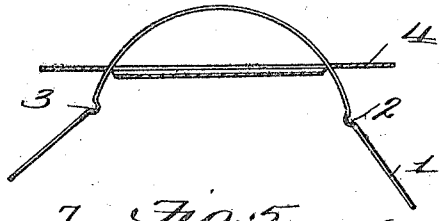


Fig. 5.

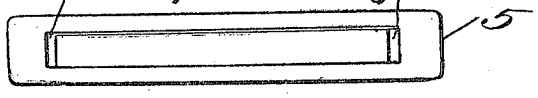
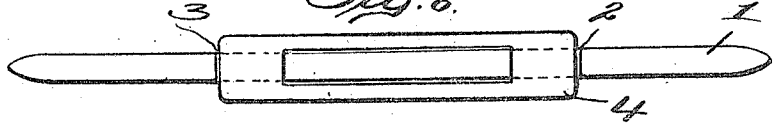


Fig. 6.



Witnesses:

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Atty.

UNITED STATES PATENT OFFICE.

HORACE F. CLARK, OF WASHINGTON, DISTRICT OF COLUMBIA.

PAPER-FASTENER.

1,233,983. Specification of Letters Patent. Patented July 17, 1917.

Application filed October 30, 1912. Serial No. 728,590.

To all whom it may concern:

Be it known that I, HORACE F. CLARK, a citizen of the United States of America, residing at #1460 Harvard street, Washington, D. C., have invented certain new and useful Improvements in Paper-Fasteners, of which the following is a specification.

This invention relates to improvements in paper fasteners, and more particularly to that class of fasteners known as pin fasteners.

In the patent to Rittenhouse, No. 920,393 of which I am the assignee of one undivided one-half interest, there is disclosed a paper fastener comprising a base member having struck up portions thereon and a pin fastener which passes under the end portions and over the main portions of the base. The pin fastener is then bent up over the ends of the base, the papers are slipped over the bent up ends of the pin fastener, a washer provided with openings adapted to receive said bent up ends is placed over the outermost sheet, and the ends of the fastener are bent over the washer until they engage the paper. The difficulty with this structure lies in the fact, that, when assembling the parts, and particularly when inserting the pin fastener through the base member and bending up the ends, a height relatively the same is not preserved between the bent up members, by reason of the fact that no guiding means is supplied on the pin fastener for engagement with the ends of the struck up portions of the base.

The object of this invention is to obviate this difficulty and to supply means on the pin fastener to define the points where the ends are to be bent up.

The invention lies in the construction and arrangement of parts which will be hereinafter more fully described.

In the accompanying drawing:

Figure 1 is a plan of the pin fastener;

Fig. 2 is a side elevation;

Fig. 3 is a side elevation of the complete paper fastener, showing the parts securing a bundle of papers;

Fig. 4 is a section showing a method of removing the pin fastener from the base member;

Fig. 5 is a plan of the washer; and

Fig. 6 is a plan of the base plate and the pin fastener inserted therethrough.

Referring to the drawings, 1 represents a pin fastener having transverse scorings 2 and 3 disposed at relatively the same distance from the ends of the fastener. This fastener is adapted to be inserted through a base member 4 until the scorings 2 and 3 come into engagement with the ends of the said base member. The ends of the pin fastener are then bent up into vertical position to receive the papers. A washer 5, provided with openings 6 and 7 to receive the bent up ends of the pin fastener is then placed over the outermost sheet and said ends are then bent over the washer until they engage the paper, as shown in Fig. 3.

When it is desired to remove the pin fastener from the base the middle portion is grasped, as shown in Fig. 4, and given an outward pull. It is then easily disengaged from the base member 4.

The advantages of this construction are obvious. By providing the transverse scorings 2 and 3 at relatively the same distance from the ends of the pin fastener, the points where said fastener is to be bent up are defined, so that the bent up ends are always disposed at relatively the same height. This obviates the possibility of bending one end up higher than the other, so that in the case when a large bundle of papers is to be secured, one end, by reason of its smaller length, will not reach the top of the bundle, thereby necessitating a removal of the fastener from the papers and a careful readjustment of the pin fastener.

Having fully described my invention, I claim:—

1. A paper fastener comprising an elongated base having transverse openings formed adjacent to its ends, a pin fastener engaged with the base and having its ends extended through the openings and formed with a pair of transverse seats spaced apart a distance equal to the length of the base, whereby when the extended ends of the pin fastener are bent at right angles to the base, the seats will overhang the ends of the base, and thus lock the parts together.

2. A paper fastener comprising an elongated base having transverse openings formed adjacent its ends and the metal between the openings pressed downwardly, a pin fastener engaged with the base and having its ends extended through the openings

and resting in the downwardly pressed portion and formed with a pair of transverse seats spaced apart a distance equal the length of the base, whereby, when the extended ends of the pin fastener are bent at right angles to the base, the seats will overhang the ends of the base and thus lock the parts together.

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

HORACE F. CLARK.

Witnesses:
JOHN B. CLARK,
W. E. HUDSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."