No. 648,841. Patented May 1, 1900.

C. J. BROSNAN.

PAPER CLIP.

(Application filed Sept. 21, 1899.)

(No Model.)

Fig. 1.

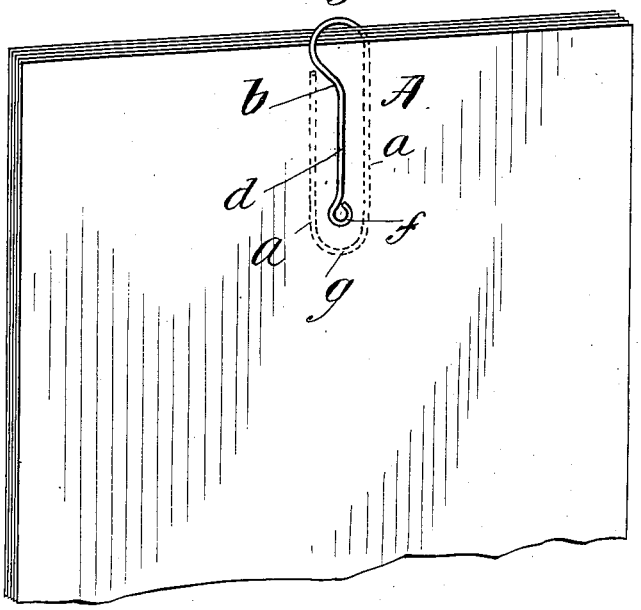



Fig. 2.

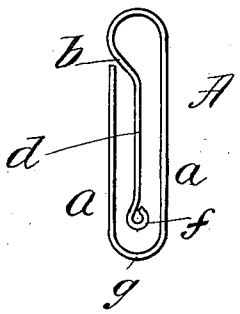



Fig. 4.

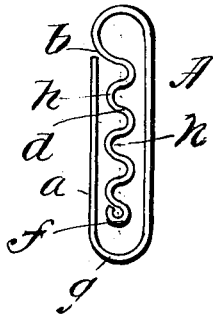
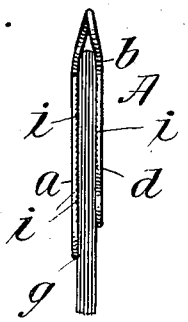



Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## PAPER-CLIP.

SPECIFICATION forming part of Letters Patent No. 648,841, dated May 1, 1900.

Application filed September 21, 1899. Serial No. 731,146. (No model.)

*To all whom it may concern:*

Be it known that I, CORNELIUS J. BROSNAN, a citizen of the United States of America, and a resident of Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Paper-Clips, of which the following is a full, clear, and exact description.

This invention relates to an improved clip or binder for fastening together sheets of paper, the object being to provide a form of paper-fastener which may be rapidly and cheaply made in large quantities from spring-wire, having the capability of being very conveniently applied in its fastening engagement with several sheets of paper, of holding the papers together with all required security, and yet of permitting its disengagement when desired.

The invention consists in the paper-fastener constructed of a single length of wire bent to form a rectangular frame, with the end portion of the wire deflected inwardly within and near one end of the frame and extended longitudinally along and within the middle of the device and having its extreme end portion preferably formed into an eye, the entire clip so formed having all the portions thereof normally disposed in a common plane and adapted for use as hereinafter described and explained.

The device is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the clip as applied for holding together several sheets of paper. Fig. 2 is a face view of the clip. Fig. 3 is an edge view of the same shown as applied about the marginal portions of several sheets of paper. Fig. 4 is a face view of the clip having minor modifications to be referred to.

The paper fastener or clip A is formed of the single length of spring-wire—brass or hard steel—somewhat more than two-thirds of which is utilized to form the elongated or more or less nearly rectangular frame and provided with an inturned portion near its outer end *a*, while the remaining portion of the wire is inturned, as at *b*, to a point within and near one end of the frame, and the stem portion *d*, constituted by the extremity of such wire, thence extended substantially longitudinally, terminating, preferably, in the edge *f* within and near the other end of the frame, and all parts of the device are normally disposed in a common plane, so that the clip is quite flat when not in use. The inturned portion *b*, especially where the bend is made more abrupt, as shown in Fig. 4, exerts a pressure upon the papers at this point and holds them more securely together than is the case where no such inturned portion is formed. The action exerted by that portion of the clip above the inturned portion *b* is most effective when the paper is forced up in the clip as high as possible, for this inturned portion exerts a pressure like a knee bearing into the paper and gives the paper its final and most effective bind.

In placing the fastener in its engagement to hold several sheets of paper together the median tongue *d* is by the thumb or finger deflected out of the normal plane of its occupancy, thereby developing a spring reaction, and the marginal portion of the several sheets of paper may be readily slipped between the frame at the one side and the tongue at the other to be gripped between said parts.

In placing the device over the marginal portions of the sheets the forward or lower rounded end *g* of the frame at the one side and the eye-formed end of the stem at the other permits the clip to be easily slid over the paper without obstruction by penetration or gouging.

Fig. 4 shows the stem corrugated, the corrugations *h* being on the plane of the whole. These serve to increase the frictional bind or render greater the tension required to disengage the clip.

The face at one side of the frame *a* and the stem at its opposite side may be advantageously and readily formed ratchet-like or with small serrations, as indicated at *i* in Fig. 3.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A clip or paper-fastener constructed of a single length of wire bent to form an elongated frame with an end portion of the wire deflected inwardly within and near one end of the frame, and extended longitudinally along and within the middle of the device,

and formed corrugated, and terminating in an eye, substantially as described.

2. A clip or paper-fastener constructed of a single length of wire bent to form an elongated frame with an end portion of the wire deflected inwardly within and near one end of the frame, and extended longitudinally along and within the middle of the device, terminating near the other end of the frame, the one side of the longitudinal portions of the frame, and the opposite side of the median stem being formed serrated, substantially as described.

3. A clip or paper-fastener constructed of a single length of wire bent to form an elongated frame with an end portion of the wire deflected inwardly within and near one end of the frame, and extended longitudinally along and within the middle of the device, and terminating in an eye near the other end of the frame, and all parts of the device being normally disposed in a common plane, substantially as described.

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