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UNITED STATES PATENT OFFICE.

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PIN FOR FABRICS.

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This invention relates to improvements in pins for fabrics, provided with points adapted to perforate and fasten together a number of sheets of paper and other fabrics for securing them against accidental displacement and detachment.

The prime object of my invention broadly stated, is a pointed pin, the construction of which is such that, following the forcing of the pin through a plurality of sheets of paper to its operative position, said sheets will resume and retain the normally smooth flattened-out, piled position they had before being secured together by the pin.

A further object of my invention is to have the shoulders forming the bend in said pin so located that one shoulder may be utilized for forcing the pin through the sheets, and the other for measuring and locating the distance between the two perforations made by the pin.

Another object of my invention is to have such a pin so formed that it may be successfully constructed from a flat strip of more or less resilient metal.

With these ends in view, my invention finds embodiment in certain features of novelty in the construction, combination and arrangement of parts by which the said objects are attained, all as hereinafter fully described with reference to the accompanying drawings, and more particularly pointed out in the claims.

In said drawing,—

Fig. 1 is a plan view of a pin in which my invention finds its embodiment, shown in its operative position when securing together quite a number of sheets of paper or fabric.

Fig. 2 is a similar view of a pin adapted for a lesser number of sheets.

Fig. 3 is a section taken on the line 3—3 of Fig. 1.

Fig. 4 is a section taken on the line 4—4 of Fig. 2; and

Fig. 5 is a section of the piled sheets shown in Fig. 3, with the fastening pin therefor in the position it occupies after making the first perforation therethrough and for making the second perforation for securing a pin thereto in its operative position.

Similar characters of reference indicate the same parts in the several figures of the drawing.

6 indicates a pin provided at one end with a pointed member 7 and a head end member 8, substantially in alinement therewith, between which is a parallel offset 9, formed by connecting converging bends forming shoulders 10 and 11, the shoulder 10 furnishing a stop for fixing the distance between two perforations 12 and 13 to be made by the pointed end of the pin for securing it in its operative position for fastening a number of sheets of paper 14 and the shoulder 11 as a stop for the thumb and fingers for pushing the pointed pin 7 through the paper sheets.

The depth of the offset in the pin differs with the size of the pin and the number of sheets it is adapted for. That is to say, as the number of sheets to be secured by the pin increase, the greater should be the size of the pin for strength, and the greater the depth and length of its offset; as, for example, as shown in Fig. 2, where there are but two or three sheets of paper to be fastened, the size of the pin and the depth and length of its offset are correspondingly small. Whereas, as shown in Figs. 1, 3 and 5, the size of the pin, its strength and the depth and length of the offset are correspondingly increased to adapt the pin for the greater number of sheets to be secured together against accidental detachment. In this connection it should be noted that there may be as many differing sizes of pins as the sheets to be secured by such a pin differ in thickness as well as number.

In practice it is found that, for pushing the pin through to make the first perforation in the papers, the force required will project a portion of, if not the entire body member 9, through the perforation, and as a result of which the body portion 9 should then be withdrawn until the shoulder 10 is in the position shown in Fig. 5, i. e. nearest said perforation for locating the second perforation so that thereafter the sheets confined between the shoulders 10 and 11 may straighten out and thereafter be held against puckering the paper and whereby every sheet, singly and collectively, may assume and thereafter be released in their normally smooth and flat condition throughout their surfaces, and particularly the portions thereof adjacent the pin, as illustrated in Figs. 3 and 4.

The pin in which my invention finds its embodiment may be partly or wholly circu-

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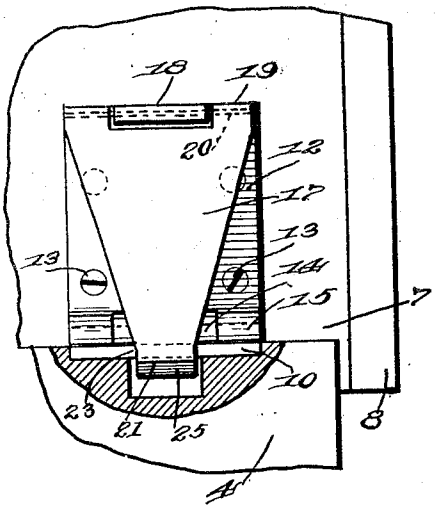
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Fig. 3.



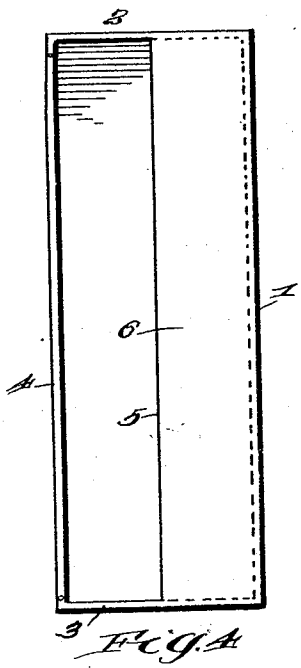
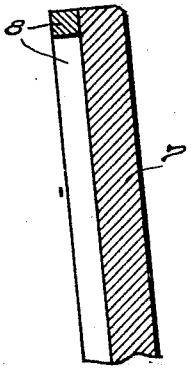


Fig. 4



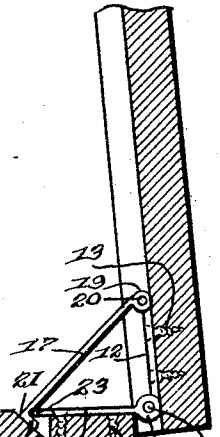


Fig. 1.

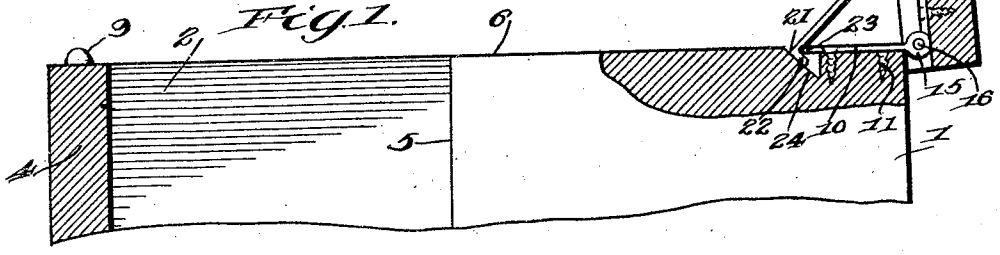
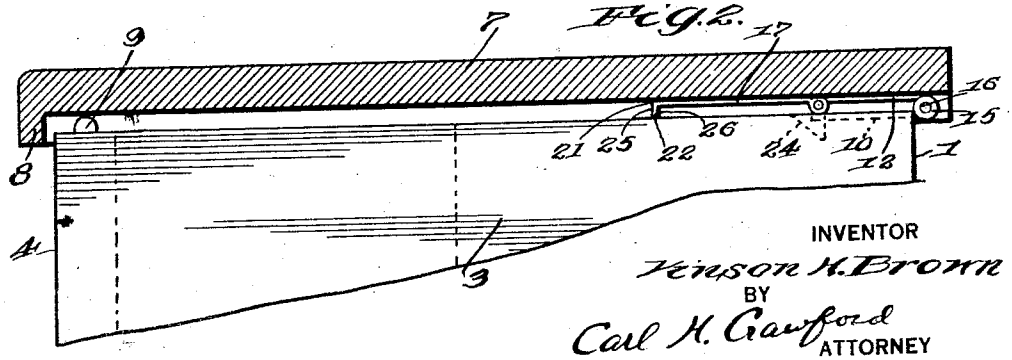


Fig. 2.



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