J. VAALER.

PAPER CLIP OR HOLDER.

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Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

INVENTOR

[Signatures]

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TO all whom it may concern:

Be it known that I, JOHAN VAALER, a subject of the King of Sweden and Norway, residing at Christiania, Norway, have invented certain new and useful Improvements in Paper Clips or Holders; and I do hereby 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in paper clips or holders; and it consists in forming same of a spring material, such as a piece of wire, that is bent to a rectangular, triangular, or otherwise shaped hoop, the end parts of which wire piece form members or tongues lying side by side in contrary directions.

In the annexed drawings, Figure 1 illustrates a clip of this kind in the moment of being applied to the papers. Fig. 2 shows the same as applied. Fig. 3 is a section on the line 3 3 in Fig. 1. Fig. 4 is a section on the line 4 4 in Fig. 2. Fig. 5 shows the same clip in the moment of being applied to the corner of the papers; Fig. 6, the same as applied and seen from the front side of the papers. Fig. 7 shows the same seen from the back side of the papers. Figs. 8 and 9 are sections, respectively, on the lines 8 8 in Fig. 5 and 9 9 in Fig. 6. Figs. 10, 11, 12, 13, and 14 illustrate modified forms of the clip.

The tongues or members a and b, which form the parts of the clip between which the papers are fastened together, have such a relative position that when both are projected in the same plane as the opposite part c (the body part) of the clip if not normally lying in said plane one of the tongues a is lying partly or wholly inside the other, b. Between these tongues there is normally a space in which the papers to be fastened together are inserted, and both of the members a and b are so short that they may be moved around each other inside the end loops d of the clip. The clip described above may preferably be used as follows:

First. The papers to be fastened together are inserted in the space between the two tongues in such a manner that the innermost tongue a lies at one side of the papers and the other parts of the clip b c at the other side, Figs. 1 and 3. Then the body part c of the clip is turned in the direction indicated by the arrow, Fig. 3, about one hundred and eighty degrees over to the other side of the tongue b, which, together with the papers and the other tongue a, form the axis around which the body of the clip is turned. In this new position, Figs. 2 and 4, the tongues on account of their spring action tend to turn the body part c of the clip farther in the same direction, but being opposed by the papers it will rest in this position, Fig. 4, in which the papers are secured together between the tongues in a very effective manner.

Second. The corners of the papers to be fastened together are inserted in the space between the tongues in such a manner that the outermost tongue b lies at one side of the papers and the other tongue a and the body c of the clip at its other side, Fig. 5. Then the tongue a, lying at the same side of the papers as the body c of the clip, is moved outwardly around the outermost tongue b, lying at the other side of the papers, thereby taking the corner along with it and pressing same against the under side of the papers, Fig. 9.

To obviate the clips hanging together when being packed up in boxes or the like, the end of one of the tongues b may, as shown in front and side elevation in Fig. 10, lie close up to the base part of the other tongue a.

The outermost tongue or member b may have its end c bent inward, as shown in Fig. 11. When the clip is applied to the corner of the papers, this end c will lie against the papers, and thereby obviate the body of the clip being turned outward, whereby the clip would be opened and the papers released.

By having the outer end of the member b bent only a little inward and slightly inclining to the side of the clip opposite the member a, as shown in Fig. 14, I obtain a locking of the clip in its fastening position as soon as a pull acts on the papers fastened together. The same effect is obtained by having the end loops d curved, as shown in Fig. 12.

The essential feature of the clip illustrated and described above is the tongues lying in opposite directions, with an open space between them for the papers, which tongues are
not brought in active position until the papers to be fastened together have been inserted.

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

A paper clip or holder comprising the sides or members a, b and c connected by loops d, the side members a and b extending in opposite directions one inside the other relatively to the side member c and being not longer than they may be moved around each other inside the loops d, said members a, b and c being disposed in different planes in order that there may normally be an opening between them for insertion of the papersheets.

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

JOHAN VAALER.

Witnesses:

AUG. OLESEN,

O. MÜLLER.