A. E. SUMERSILLE.

PAPER CLIP.

APPLICATION FILED JAN. 16, 1919.

1,310,587. Patented July 22, 1919.

FIG. 1

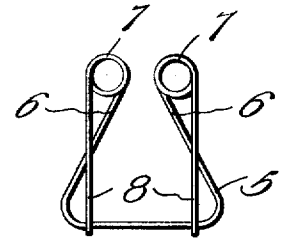


FIG. 2

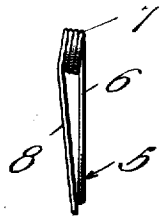


FIG. 3

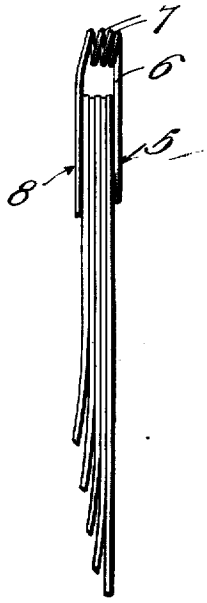
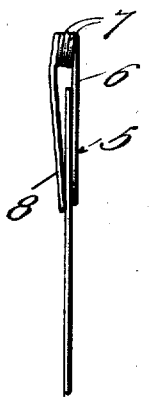


FIG. 4



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PAPER-CLIP.

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Application filed January 16, 1919. Serial No. 271,485.

To all whom it may concern:

Be it known that I, ALANO E. SUMERSILLE, a citizen of the United States, residing at San Juan, Porto Rico, have invented certain new and useful Improvements in Paper-Clips, of which the following is a specification.

My invention relates to improvements in paper clips, and has particular reference to such clips which are formed of resilient wire.

As is well known, the ordinary paper clip formed of wire, is not particularly well adapted for holding thick piles of paper. When applied to a thick pile of paper the clip ordinarily becomes permanently distorted, so that it loses its proper holding action, or the arm or arms of the same frequently break off.

As far as I am aware, no satisfactory means have been provided whereby a paper clip of one size, may be properly applied to piles of paper having considerable different thicknesses. The disadvantage has been overcome by constructing the paper clips in different sizes, but this is more expensive, and necessitates the user keeping a supply of clips of various sizes.

In accordance with my invention I provide a paper clip including a body portion carrying an arm or arms, adapted to coact therewith for receiving therebetween the pile of papers. The arm is connected with the body portion by a retractile coil-spring, having its axis arranged perpendicular to the paper held within the clip. By the provision of these retractile coil-spring or springs, my clip is adapted to accommodate itself for holding piles of paper of widely different thicknesses, without the disadvantages encountered in connection with the ordinary clip.

An important object of the invention is to provide a clip of the above mentioned character, which is simple in construction, inexpensive to manufacture, convenient in use, and strong and durable.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of a clip embodying my invention,

Fig. 2 is an edge elevation of the same,

Fig. 3 is an edge elevation, showing the clip applied to a thick pile of papers and the spring distended, and,

Fig. 4 is a similar view, showing the clip applied to a thin pile of papers and the spring contracted.

In the drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates the body portion of the clip, which is formed of suitably stiff and resilient wire. This body portion is preferably U-shaped and has a pair of arms 6, the ends of which are bent into retractile coil-springs 7, each of which is formed of a plurality of turns. These coil-springs have their axes arranged perpendicular to the plane of the arms 5 or to the plane of the paper held by the clip.

The ends of the coil springs 7 are extended for providing coacting clamping arms 8, arranged opposite the body portion 5, for receiving the paper between them and the body portion. The arms 8 are preferably arranged at an angle with relation to the body portion, as shown in Fig. 2.

In the use of the device, when a thin pile of paper is received within the clip, as indicated in Fig. 4, the arms 8 may be slightly angularly displaced, but the retractile coil-springs 7 are not distended.

In Fig. 3, the clip is shown as applied to a thick pile of paper. The arms 8 are substantially parallel with the body portion 5, and the retractile coil-springs 7 are distended. These springs prevent the arms from being permanently displaced with relation to the body portion or from breaking off. It is thus seen that the clip is adapted to hold piles of widely different thicknesses.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to, without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention I claim:

1. A paper clip formed of a section of suitably stiff and resilient wire bent into a body portion, a retractile coil-spring carried by one end of the body portion, said

spring having its axis arranged substantially perpendicular to the plane of the paper held within the clip, and an arm carried by the spring and arranged opposite the body portion.

2. A paper clip formed of a section of suitably stiff and resilient wire having an approximately U-shaped body portion provided with arms, retractile coil-springs carried by the free ends of the arms and having their axes substantially perpendicular to the plane of the paper held by the clip, and arms carried by the springs and arranged opposite the body portion.

In testimony whereof I affix my signature.

ALANO E. SUMERSILLE.

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