No. 866,943. PATENTED SEPT. 24, 1907.

P. H. LONG.

NECKTIE FASTENER.

APPLICATION FILED DEC. 15, 1906.

Fig. 1.

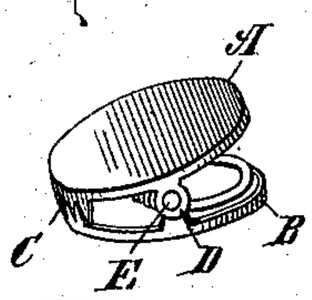


Fig. 2.

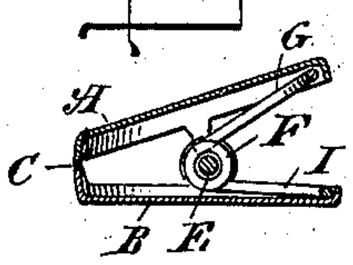


Fig. 3.

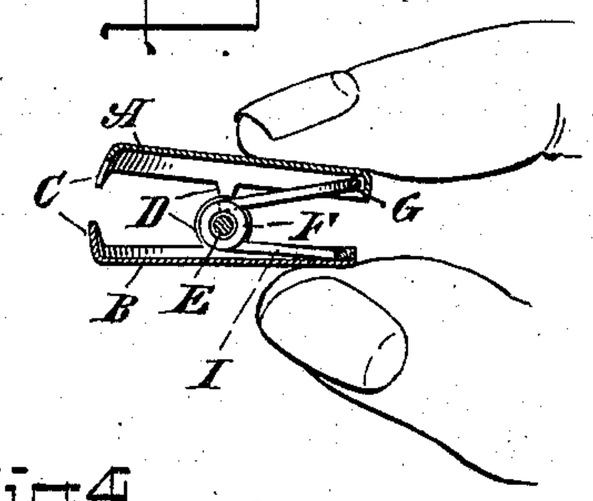
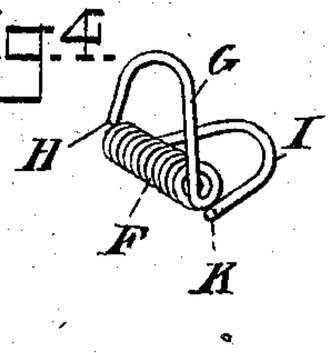


Fig. 4.



WITNESSES

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NECKTIE-FASTENER.

No. 866,943. Specification of Letters Patent. Patented Sept. 24, 1907.

Application filed December 15, 1906. Serial No. 347,966.

To all whom it may concern:

Be it known that I, PHILIP H. LONG, a subject of His Majesty the King of Great Britain, and a resident of Newark, in the county of Essex and State of New Jersey, have made and invented certain new and useful Improvements in Necktie-Fasteners, of which the following is a specification.

My invention relates to an improvement in necktie fasteners. It has heretofore been necessary in articles of this kind, to make them of comparatively heavy metal, in order that they may withstand the pressure exerted thereon when overcoming the tension of the spring in separating or opening the jaws. If the tension of the spring be made too light, the fastener is incapable of performing its proper functions for which it is designed, and if the spring be made stiff, the plates must be made correspondingly heavy in order to withstand the pressure necessary to overcome the tension of said spring in the act of separating the jaws.

The object of my invention is to so construct the article that the spring may be made as stiff as desired without the necessity of increasing the thickness of the plates, and with this and other ends in view, consists in certain novel features of construction and combinations of parts, as will be hereinafter fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of a fastener constructed in accordance with my invention. Fig. 2 is a sectional view of the same. Fig. 3 is a sectional view of the fastener in its open adjustment. Fig. 4 is a detached perspective view of the spring.

Referring to the drawings, A, B, represent the two plates of the fastener, each provided with the teeth C, and with a lug or projection D on each side thereof through which passes the pin E, in order to pivot or hinge the plates together. Around the pin E is coiled a spring F, one end of which is bent into the form of a loop G, the extreme end H thereof lying against the opposite end of the coil. The other end of the wire is bent around to form a loop I, the extreme end K lying at the opposite end of the coil F from that of the end H.

When the parts are assembled, as illustrated in Figs. 1, 2 and 3, the loop G extends around the outer periphery of the plate A, and the loop I around the periphery of the plate B, thereby strengthening and reinforcing the same, in that when pressure is applied to the rear ends of the plates A, B, in order to separate the teeth C formed on the forward ends, the strain, instead of falling upon the plates, as heretofore, will be imposed upon the loops, overcoming all danger of bending the plates, or the indenting or disfigurement thereof by the ends of the spring. This being so, it will be evident that the spring may be made of any desired tension, that is, a tension sufficiently great to keep the forward ends of the jaws in a closed adjustment, and this without the necessity of increasing the thickness of the plates A, B.

As it is natural to apply the pressure to the extreme rear ends of the jaws for the purpose of separating the teeth C, it will be understood that there is but little or no strain on the plates themselves, pressure being applied over and upon the loops G and I, and hence it is possible when the fastener is made of gold or other precious metal, to decrease the cost thereof by decreasing the thickness of the plates.

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

1. A fastener comprising two plates, a pin upon which said plates are pivotally supported, a spring for closing said fastener, and loops lying at one side only of said spring and impinging against the rear portions of said plates and re-inforcing the same, substantially as described.

2. A fastener comprising two plates, a pin upon which said plates are pivotally supported, and a spring coiled around said pin, the ends of said spring being bent to form upper and lower loops, said loops lying at one side only of said spring and impinging against the periphery of the rear portions of the two said plates, substantially as described.

3. A fastener comprising two plates, a pin upon which said plates are pivotally supported, and a spring coiled around said pin, the ends of said spring being bent to form rearwardly extending loops, the free ends of which lie against opposite ends of the coiled portion of the spring, whereby said loops will be at one side only of said coiled portion, said loops impinging against the periphery of the rear portions of the two said plates, substantially as described.

Signed at Newark, in the county of Essex, and State of New Jersey, this 7th day of Dec. A. D. 1906.

PHILIP H. LONG.

Witnesses:
FRED W. TAYLOR,
JULIUS KOCH.