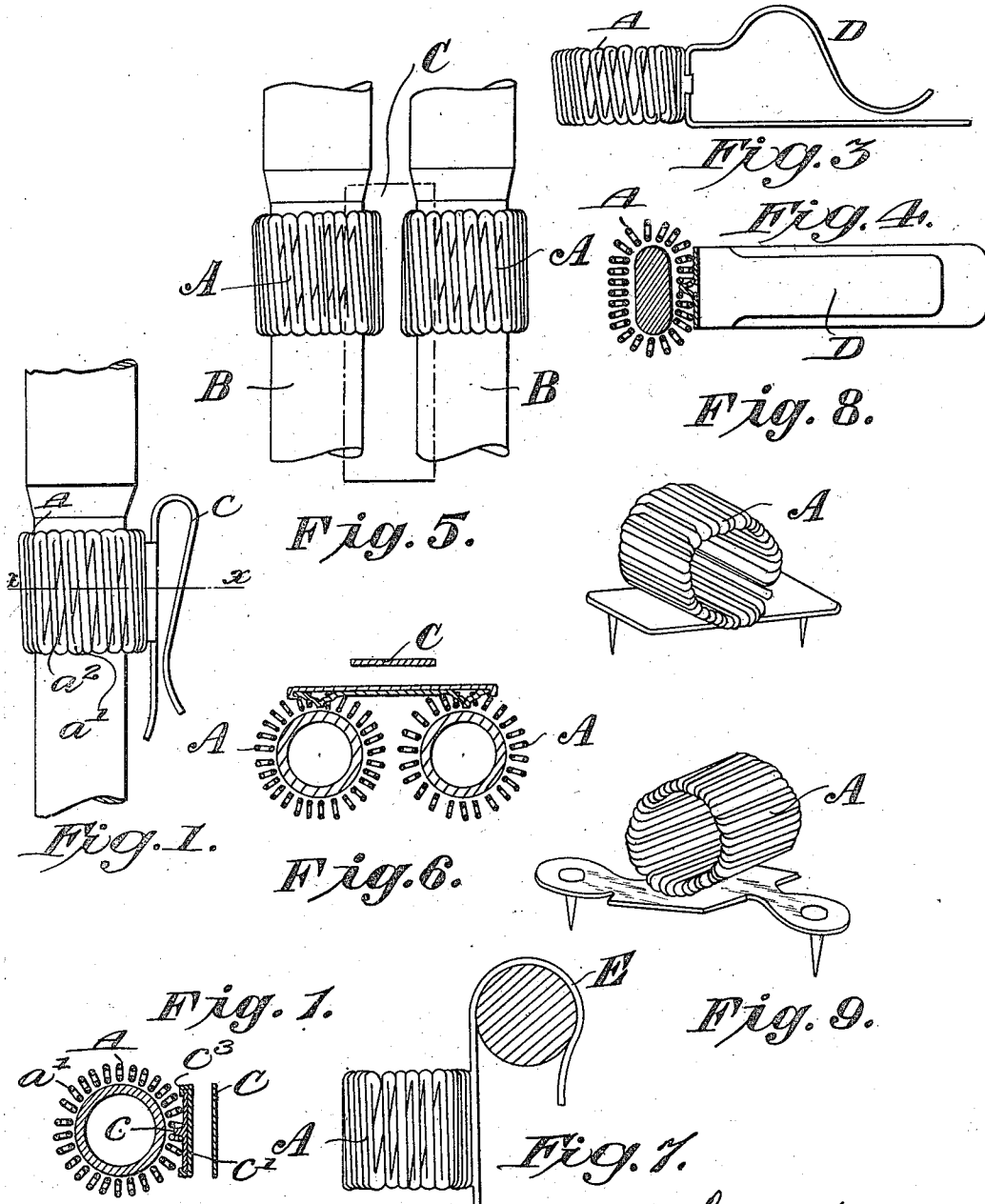


A. E. TERRY.
 DEVICE FOR DETACHABLY SECURING ARTICLES IN POSITION.
 APPLICATION FILED JAN. 6, 1911.

1,064,788.

Patented June 17, 1913.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR DETACHABLY SECURING ARTICLES IN POSITION.

1,064,788.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed January 6, 1911. Serial No. 601,189.

To all whom it may concern:

Be it known that I, ALFRED ERNEST TERRY, a subject of the Kingdom of Great Britain, residing at Novelty Works, Redditch, in the county of Worcester, England, manufacturer, have invented certain new and useful Improvements in or Relating to Devices for Detachably Securing Articles in Position, of which the following is a specification.

This invention comprises an improved coiled spring socket device for retaining articles in position and it has for its object such a device which is particularly satisfactory in use and which is adaptable for a great variety of purposes, more especially as pocket fountain pen and pencil clips, and shop window and show room display clips.

According to this invention the device contains a spring coiled wire socket which is expandible and adapted to effectively grip articles of comparatively small or large dimensions in a manner which does not scratch or otherwise injure the article gripped, the socket being also of such a character that articles of varied configuration such as of round, square, oval, or the like, may be retained therein, the device being also preferably of such a form that the articles may be easily inserted therein.

The invention further comprises means whereby a coiled spring wire socket may be secured to the means whereby such socket is retained in the desired position, while the invention still further comprises improved methods whereby such socket is retained in the desired position.

In order that this invention may be clearly understood and more readily carried into practice, reference may be had to the two appended explanatory sheets of drawings, upon which:—

Figure 1 is a side elevation to an enlarged scale of a device constructed according to this invention showing its adaptability for securing a fountain pen in the vest or other garment pocket. Fig. 2 is a section on line *x x* of Fig. 1. Fig. 3 is a side elevation of the socket adapted to be secured to a shelf such as of a shop window. Fig. 4 illustrates the manner in which the socket may adjust itself to the configuration of any desired article. Fig. 5 is a front elevation on an enlarged scale of a modified form of the invention. Fig. 6 is a transverse section of Fig. 5. Fig. 7 shows a modified form for attachment to a rod, and Figs. 8 and 9 show

further modified forms for attachment to desks, tables, walls or wood shelves.

In a convenient embodiment of this invention, the socket A is formed from coiled spring wire *a'* the convolutions of which are of an elongated form which provides a flat gripping surface whereby the article is very effectively gripped without in any way marking or otherwise damaging the retained article. Further by virtue of this form of convolutions the article may be very readily inserted therein as the end of the socket within which the article is first inserted opens out in advance of the other end, thereby insuring the pressure of the spring to be gradually overcome. Still further advantage accrues by this form in that the socket maintains a rigid position, that is to say maintains a perpendicular position in relation to the attachment plate or the like, thereby retaining the contained article in a position parallel to the foundation plate. When the socket is used in connection with a pocket fountain pen clip it is combined with a spring clip C. The clip C is conveniently secured to the socket through the medium of a plate *c'* which is channeled or grooved at its center to allow of the ends of the spring wire being passed thereunder for the purpose of securing the socket thereto, the plate itself being fastened to the clip C by means of the turned over lips *c* of such clips.

It will be seen that the pen B can be readily inserted within the socket as such socket will be gradually opened out from the end within which it is placed thereby gradually bringing into play the full force of the spring.

The spring socket is not limited in its application to the retention of round articles, as articles of any desired cross section may be retained therein, the socket conforming to any cross section as shown by Fig. 4, thereby enabling such articles as penknives, inch rules to be positioned.

The socket may be used as window or display clip for which purpose it is specially adapted as the socket can grip any desired article such as spoons, table knives, pipes, scissors or the like. To effect this a spring clip (Fig. 3) may be incorporated to provide for its attachment to a shelf, or if desired a hook clip E Fig. 7 may be incorporated to enable the device to be placed upon a rod.

If desired two or more spring sockets A may be used on one pocket clip for positioning two or more pens or pencils or the like, as shown by Figs. 5 and 6 or, one or more may be suitably connected together for attachment to a desk or the like in which case the socket or sockets may be attached to a foundation plate *g* which is secured in position to the desired part by means of springs (Fig. 8) or nails or screws (Fig. 9). Again if desired the socket may be used to secure a floral button-hole or serviette holder. The foregoing applications are, however, merely given as examples, the device being capable of adaption for a great variety of purposes.

As will be readily understood the spring clips or attachment means may be readily varied within the scope of the appended claim to suit the particular application of the clip.

It will be seen from the foregoing that the holder comprises a tubular member having inner portions which engage and embrace the article to be held and outer portions which are free from the article to be held and which are connected with the inner portions by upper and lower connecting portions of the coil of which the holder is formed. The engagement of the tubular member with the article held thereby extends substantially throughout the length of the interior of the tubular member so the latter will have a firm and efficient grip upon the article. Furthermore, the resilient wire of which the tubular coil is formed is stiffened to such an extent that it will project freely from the clip or attaching means to which it is secured and will normally maintain its tubular form during and subsequent to insertion of the article therein. This relieves the user of the necessity of

holding the clip while inserting the pen or pencil therein. By reason of this construction applicant is also enabled to locate the fastening means wholly on one side of the tubular member, or on one side of the longitudinal axis thereof, and it is not necessary to support the spring tubular member, otherwise than at the point of attachment of the said means therewith. The coils are stiffened and caused to maintain their shape by reason of the elongated loop formation.

What I claim as my invention and desire to secure by Letters Patent is:—

As an article of manufacture, a holder comprising an elongated tubular member composed of a coil of resilient wire formed into a plurality of elongated loops having inner portions adapted to embrace the article to be held when expanded thereby throughout a distance substantially equal to the length of the interior of said tubular member, said coil having outer portions disposed out of engagement with the article to be held and joined to the inner portions by end connecting portions of the coil, and securing means attached to said tubular member and located wholly on one side of the longitudinal axis of said member, said resilient coil being stiffened by the elongation of said loops to thereby project from said means and inherently maintain its tubular form during and subsequent to insertion therein of the article to be held, substantially as described.

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

ALFRED ERNEST TERRY.

Witnesses:

LEWIS W. GOOLD,
ARTHUR H. BROWN.