(No Model.)

G. W. McGILL.

METALLIC FASTENER.

No. 512,621. Patented Jan. 9, 1894.

Fig. 1.

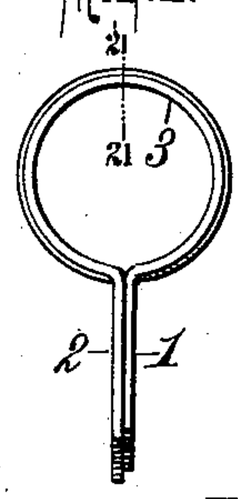


Fig. 21.

Fig. 5.

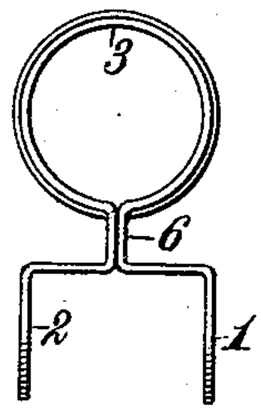


Fig. 11.

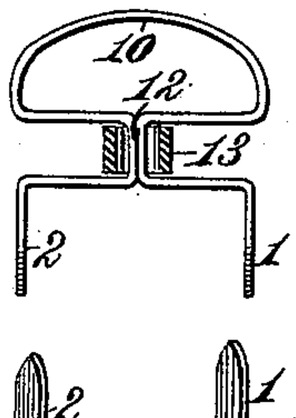


Fig. 16.

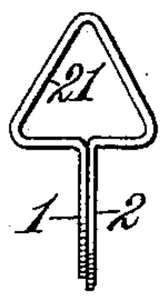


Fig. 2.

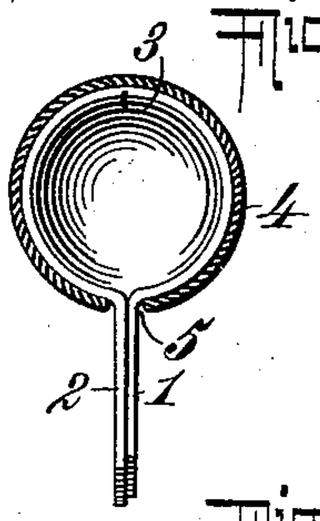


Fig. 6.

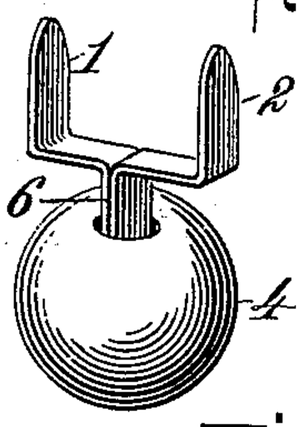


Fig. 12.

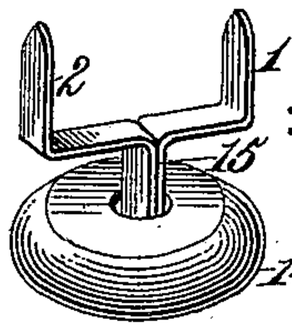


Fig. 17.

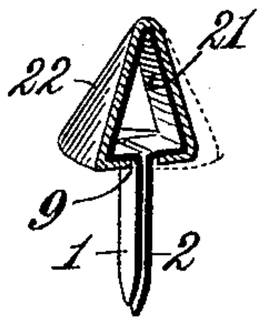


Fig. 3.

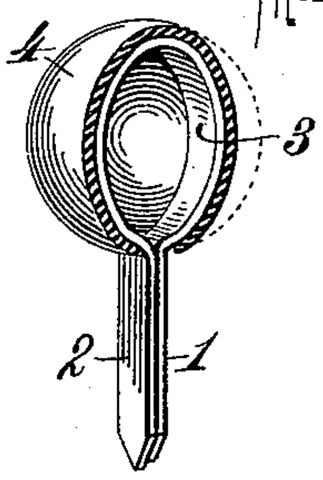


Fig. 7.

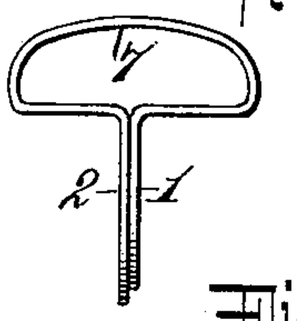


Fig. 13.

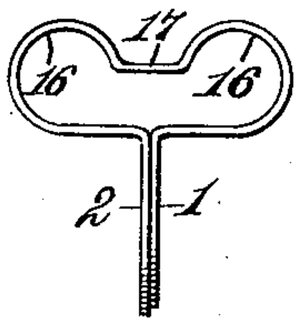


Fig. 18.

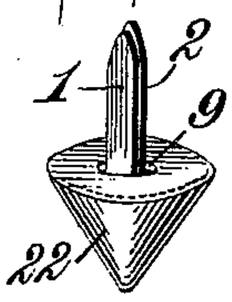


Fig. 4.

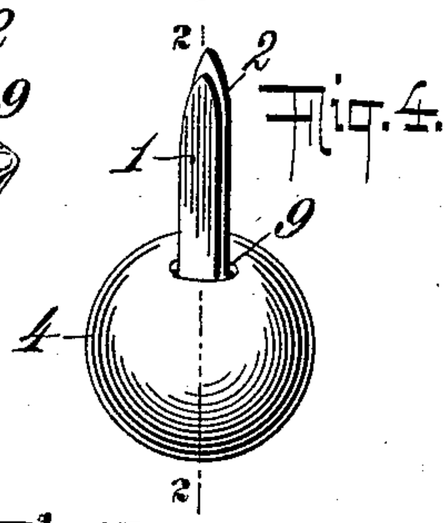


Fig. 8.

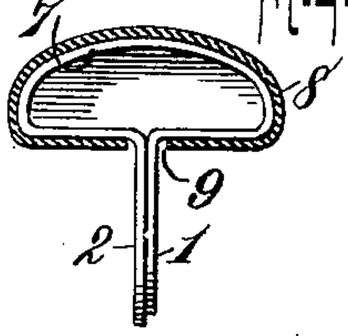


Fig. 14.

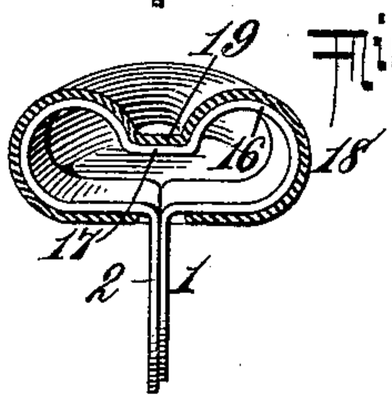


Fig. 15.

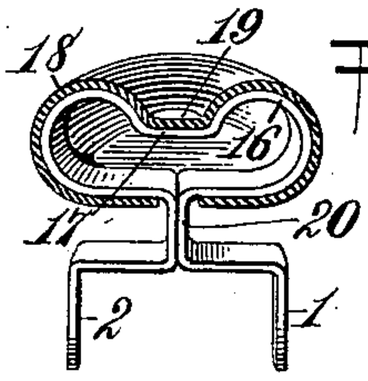


Fig. 9.

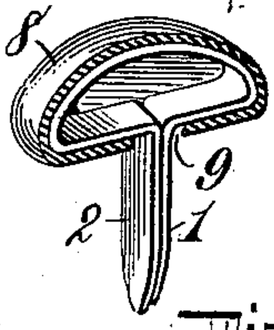


Fig. 19.

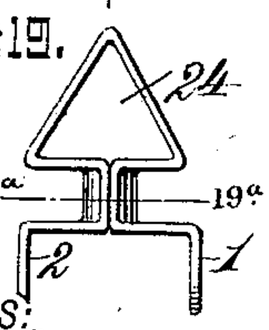


Fig. 19a.

Fig. 10.

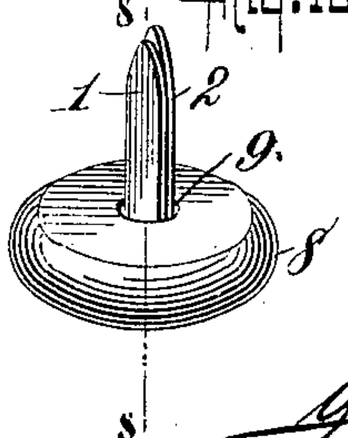
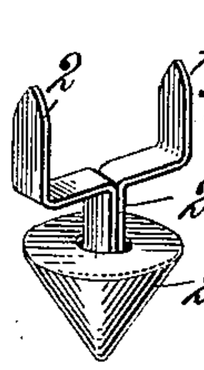


Fig. 20.



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METALLIC FASTENER.

SPECIFICATION forming part of Letters Patent No. 512,621, dated January 9, 1894.

Application filed July 27, 1893. Serial No. 481,646. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. McGILL, a citizen of the United States, residing at New York, (Riverdale,) in the county of New York and State of New York, have invented new and useful Improvements in Metallic Fasteners, of which the following is a specification.

This invention relates to that type of metallic fasteners having duplex-pronged shanks and a capped head piece.

The objects of my invention are to provide a new and improved metallic fastener particularly designed for basket and paper box fastening, decorating and protecting the leather in harness, belts, dog collars, for upholstery fastenings, buttons, knobs for protecting the corners of books, and satchels, and many other and similar purposes; to provide a novel ornamental head which is light, strong, durable, and desirable and presents a distinguishing and characteristic appearance to the eye; to provide such a construction that a cap varying in shape or contour may be able to be fully closed on all sides, except the small point in its bottom wall or base, through which the duplex-pronged shank extends; to provide such a novel construction and arrangement of cap and duplex-pronged shank that the head of the shank conforms to and corresponds in contour with the interior of the cap and braces and sustains the latter; and to provide a novel hollow capped fastener, light in weight, and having a duplex-pronged shank so shaped as to form a contracted neck in juxtaposition to the cap with separated prongs to pass through the articles to which the fastener is applied.

To accomplish all these objects my invention consists in the features of construction and the combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a detail side elevation of the duplex-pronged shank. Fig. 2 is a sectional side elevation of a metallic fastener constructed in accordance with my invention. Fig. 3 is a sectional perspective view, the plane of section being taken on the line 2—2, Fig. 4. Fig. 4 is an inverted perspective view. Fig. 5 is a detail perspective view of the duplex-pronged shank, showing a modified construction. Fig. 6 is an inverted perspective view of the duplex-pronged fastener, Fig. 5, provided with an ornamental cap in accordance with my invention. Fig. 7 is a detail side elevation, showing a modified construction of the duplex-pronged shank. Fig. 8 is a sectional side elevation, showing a cap applied to the shank exhibited in Fig. 7, the plane of section being on the line 8—8, Fig. 10. Fig. 9 is a sectional perspective view of the same. Fig. 10 is an inverted perspective view of the same. Fig. 11 is a detail side elevation, showing another modification. Fig. 12 is an inverted perspective view, showing a cap applied to the form of shank exhibited by Fig. 11. Fig. 13 is a detail side elevation of a duplex-pronged shank constructed according to another modification. Fig. 14 is a sectional view, showing a cap applied to the form of shank exhibited by Fig. 13. Fig. 15 is a sectional view of another modification. Fig. 16 is a detail side elevation of another form of duplex-pronged shank. Fig. 17 is a sectional perspective view, showing a cap applied to the form of shank exhibited by Fig. 16. Fig. 18 is an inverted perspective view of the same. Fig. 19 is a side elevation, showing another modified construction of duplex-pronged shank. Fig. 19[a] is a sectional view, taken on the line 19[a]—19[a], Fig. 19. Fig. 20 is a detail perspective view of another modification; and Fig. 21 is a detail sectional view, taken on the line 21—21, Fig. 1.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numerals 1 and 2 indicate the two prongs or members of the duplex-pronged shank, which prongs or members are formed integral from a strip of metal which is bent in such manner as to form a circular head or ring 3 with the prongs or members superimposed or contiguous and of unequal length, so that one projects slightly beyond the other to facilitate their separation for the purpose of flattening them down upon the articles or objects to which the device is to be applied. The circular or ring portion 3 of the duplex shank is slightly curved in cross section, as represented in Fig. 21, for the purpose of imparting an arched form to the circular head or ring, so that it will accurately conform to

and fit the internal surface of a ball-shaped cap 4, Figs. 2, 3, and 4, formed of a single piece of sheet metal which is applied to the circular or head portion 3 and shaped into the form of a hollow ball or sphere which is entirely closed on all sides except the single small point or slot 5 through which the duplex-pronged shank extends.

The metallic fastener constructed as described is particularly designed for basket and light box fastening, decorating and protecting harness, belts, dog collars, for upholstery fastenings, buttons, and knobs for protecting the corners of books and satchels, but is useful for many other purposes not necessary to enumerate.

The device is applied by forcing the two prongs or members 1 and 2 through the article, object, or material, and flattening them down thereupon in opposite directions, whereby the article, object, or material will be provided with a button, ball-shaped, or hollow spherical ornamentation which presents a characteristic and distinguished appearance and which is completely closed on all sides, so that no joint or opening is visible.

The duplex-pronged shank may be formed as shown in Fig. 5, where the two prongs or members 1 and 2 are spread apart and are joined to the circular or ring head through the medium of a contracted neck 6.

The duplex-pronged shank Fig. 5 is provided with a hollow ball shaped or spherical head or cap 4, Fig. 6, constructed in all respects the same as described with reference to Figs. 2, 3, and 4.

In Fig. 7 the head 7 of the duplex-pronged shank is elongated and flattened as compared with the circular or ring shape, Figs. 1 and 5, and in this form of shank a hollow metallic head, or cap 8, Figs. 8, 9, and 10, is employed, which head or cap is fully closed on all sides except the small point or slot 9 through which the duplex-pronged shank extends.

In Fig. 11 the duplex-pronged shank is constructed with a head 10 similar to that exhibited by Fig. 7, and with a contracted neck 12 similar to that shown with reference to Fig. 6, but this neck is strengthened, and its two parts held together through the medium of a collar 13.

In Fig. 12 the head or cap 14 of the fastener is constructed the same as described with reference to Figs. 8, 9, and 10, but the duplex-pronged shank is provided with a contracted neck 15, and the extremities of the prongs or members 1 and 2 are separated or spead apart.

In the modified construction Fig. 13, the head 16 of the duplex-pronged shank is sunken or depressed at its center, as at 17, and this form of duplex-pronged shank is provided with a hollow metallic head or cap 18 of the form shown in Fig. 14, which head or cap is shaped with a central depression 19 to fit the central depression 17 of the head 16, Fig. 13.

The construction exhibited by Fig. 15 is the same as that exhibited by Fig. 14, except that the duplex-pronged shank is formed with a contracted neck 20, and the two prongs or members 1 and 2 are separated or spread apart.

In Fig. 16 the head portion 21 of the duplex-pronged shank is substantially triangular in shape, and with this form of head a hollow conical head or cap 22, Figs. 17, 18, and 20 is employed.

The construction shown in Fig. 20 is the same as that shown in Figs. 17 and 18, except that the duplex-pronged shank is formed with a contracted neck 23, and the prongs or members 1 and 2 are separated or spread apart.

In the modification Fig. 19, the head portion 24 of the duplex-pronged shank is substantially triangular, as described with reference to Fig. 16, and the two prongs or members 1 and 2 are separated or spread apart while a contracted neck 25 of tubular form, Fig. 19ª, is employed, which tubular neck is constructed by shaping each part of the metal composing the neck into semi-circular form in a transverse direction.

In all the constructions described and shown the duplex-pronged shank is formed with an enlarged head portion of loop form, which may be circular, oblong, triangular, or of any other suitable configuration, and the metallic head or cap is composed of a single piece of sheet metal correspondingly shaped throughout the vertical diameter, and so applied that it forms a hollow cap piece which is fully closed at every point, and on all sides, except the single small point or slot through which the two prongs or members of the duplex-pronged shank extends.

The improved construction provides a novel, simple, strong, durable, and efficient duplex-pronged shank having a light hollow head or cap piece, which is fully closed on all sides, and consequently is without visible joint or openings to render it objectionable in appearance when applied as desired.

The device is suitable for many purposes, but, as before stated, is more particularly designed for application as light decorative fastenings for basket work, light paper, and wooden boxes; for decorating and protecting the leather in harness, belts, dog collars, &c.; as knobs for protecting the bottoms of satchels and corners of books; in the upholstery of furniture; as buttons; and thousands of other uses where light ornamental binding is required.

Having thus described my invention, what I claim is—

1. As an improved article of manufacture, a duplex-pronged fastener, consisting of two prongs or members having an open loop-shaped head, and a hollow cap correspondingly shaped and elongated through its vertical axis applied to the loop-head, and fully closed on all sides and under the looped shaped

head except the single point where the two prongs or members project, substantially as described.

2. A metallic fastener, consisting of a duplex-pronged shank having an open loop head, and a metallic hollow cap applied to the open loop head and internally braced and supported thereby, said cap being elongated through its vertical axis and closed on all sides except the single point where the two prongs or members project, substantially as described.

3. A metallic fastener, consisting of a duplex-pronged shank having an open loop-head, and a contracted neck in juxtaposition to the loop-head, and a metallic hollow cap applied to the loop-head and internally braced and supported thereby, said cap being elongated through its vertical axis and closed on all sides except the single point through which the contracted neck extends, substantially as described.

4. A metallic fastener, consisting of a hollow metallic cap, elongated through its vertical axis and a duplex-pronged shank formed integral with a central open loop-head arranged in the plane of the shank and shaped to conform to and fit the internal surface of the hollow metallic cap, substantially as described.

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

GEORGE W. McGILL.

Witnesses:
W. HARRY McGILL,
AUGUSTUS B. FIELD.