

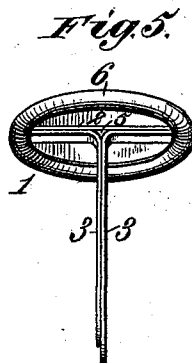
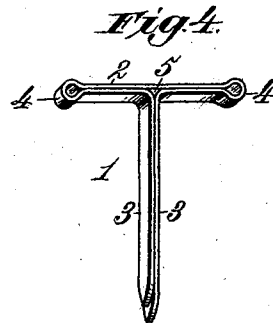
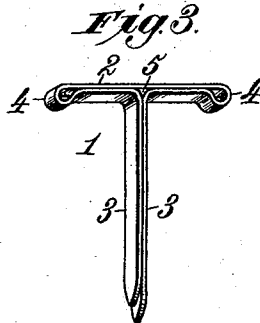
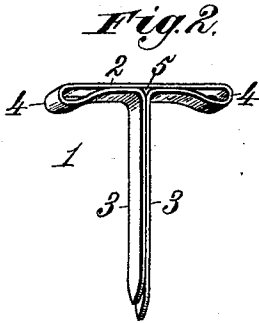
(No Model.)

G. W. MCGILL.
METALLIC FASTENER.

No. 498,138.

Patented May 23, 1893.

Fig 1.



Witnesses
Edw. Everett.
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Inventor.
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UNITED STATES PATENT OFFICE.

GEORGE W. MCGILL, OF RIVERDALE, NEW YORK.

METALLIC FASTENER.

SPECIFICATION forming part of Letters Patent No. 498,138, dated May 23, 1893.

Application filed March 11, 1893. Serial No. 465,608. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MCGILL, a citizen of the United States, residing at 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.

The ordinary T-shaped paper fasteners in which, as heretofore constructed, the metal is bent closely together at the shoulders, and having shanks in close parallel contact with each other throughout their entire length, are exceedingly liable to breakage at the bends in the metal. The sharp bends or folds usually formed in such fasteners weaken or fracture the grain of the metal and expose it to a rotting action of the cleaning acid in which the fasteners are subsequently dipped. Being thus weakened the fasteners are likely to break apart when used and frequently fall to pieces in the boxes in which they are packed.

My invention has for its object to avoid sharp folds or bends at the points where folding or bending is necessary in a T-shaped metallic fastener and thereby render the fastener uniformly strong and durable throughout its several parts.

The invention consists in a metallic fastener composed of a strip of metal fashioned into a T-shape with loops or eyes in the bends or shoulders at the ends of the head or crown and having the blades of its double shank in close parallel contact with each other except at their bends.

In the annexed drawings illustrating the invention—Figure 1 is a view of the metal blank from which the fastener is formed. Figs. 2, 3 and 4 represent several forms of the fastener in which the central part of the metal strip is folded to form the head or crown of the T while the ends of the strip are bent to form the pillar or double shank of the fastener, the folded and bent portions of the metal strip being in close parallel contact except at the outer ends of the head and inner end of the shank. Fig. 5 is a view of the fastener provided with a button cap.

The fastener-blank 1 is cut from sheet brass or other suitable metal and is oblong in form and preferably provided with ends that de-

crease in width and terminate in slightly rounded points, as shown in Fig. 1. This blank is fashioned into a T-shaped fastener having the head or crown 2 and a double shank composed of the blades 3, 3, the upper and under parts of the head being in close parallel contact except at the open looped bends or folds 4 and the blades 3 being likewise in close parallel contact except at their inner ends where they diverge and leave a space or loop 5 beneath the center of the head. By this construction there are no sharp bends or folds in any part of the fastener.

The loops or eyes 4 in the ends of the fastener head may be somewhat elongated as shown in Fig. 2, they may project below the head as shown in Figs. 2 and 3, or as shown in Fig 4 they may be substantially cylindrical and project partly below and partly above the ends of the head. In bending the fastener into the required T-shape any other suitable or convenient form may be given to these eyes or open loops 4 so long as they are not formed with sharp bends.

By reference to Figs. 2, 3 and 4 it will be observed that the fastener head 2 is composed of two thicknesses of metal which are in close contact with each other except at the eyes or loops 4, whereby the requisite strength is imparted to the head without risk of exposing it to breakage at the points of bending and folding. It will also be observed that the parallel blades 3 of the double shank are in close contact with each other except at the diverging bends 5 immediately below the center of the head or crown, said bends being obtuse or without sharp angles so that they do not involve any fracture or weakening of the grain or fiber of the metal.

If desired, the head of the fastener may have a button cap 6 attached in the usual manner as shown in Fig. 5, or the fasteners may be used without caps.

By forming the shouldered, bent or folded portions of the fastener in the manner described, so as to avoid sharp bends or angles, the objections incident to ordinary T-shaped fastening devices, resulting from their fragile nature, are wholly avoided. The improved fastener being without sharp bends or folds

is uniformly strong and durable throughout; the grain or fiber of the metal is unimpaired and the reliability of the fastening is thus largely increased.

5 The fastener is employed in the usual well known manner by thrusting its double shank through the papers or articles to be connected and then spreading the blades of the shank apart.

10 What I claim as my invention is—

The **T** shaped metallic fastener composed of a head 2 having open loops or eyes 4 in its ends and a double shank consisting of the

blades 3 having obtuse diverging bends 5, the folded parts of said fastener being in close 15 parallel contact except at the bends or folds in the head and shank, respectively, whereby sharp bends or folds are avoided, substantially as described.

In testimony whereof I have hereunto set 20 my hand in presence of two subscribing witnesses.

GEORGE W. MCGILL.

Witnesses:

HENRY SCOTT,
G. H. CLARK.