

(No Model.)

H. S. PIGGINS.
HOOK.

No. 502,529.

Patented Aug. 1, 1893.

Fig. 1.

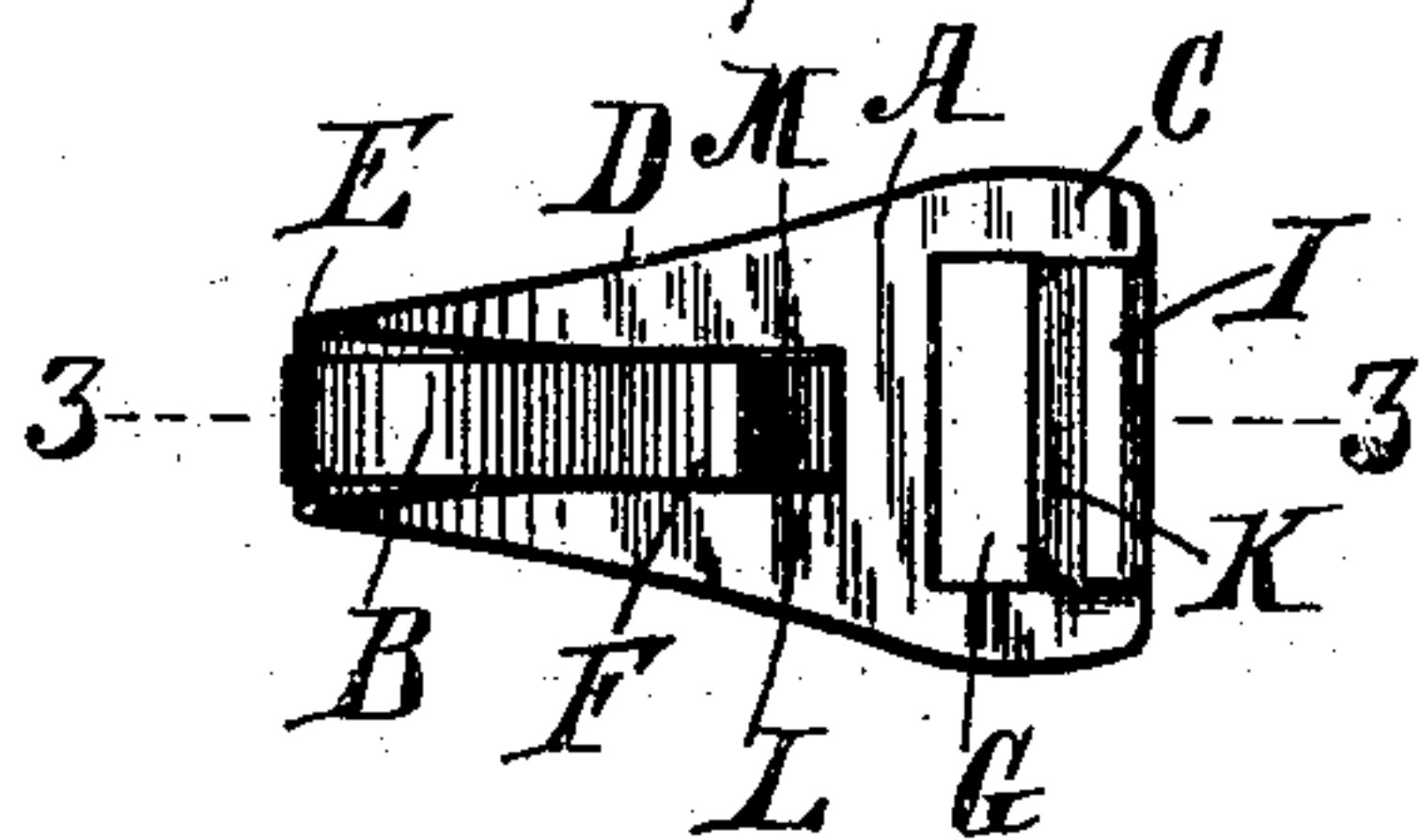


Fig. 2.

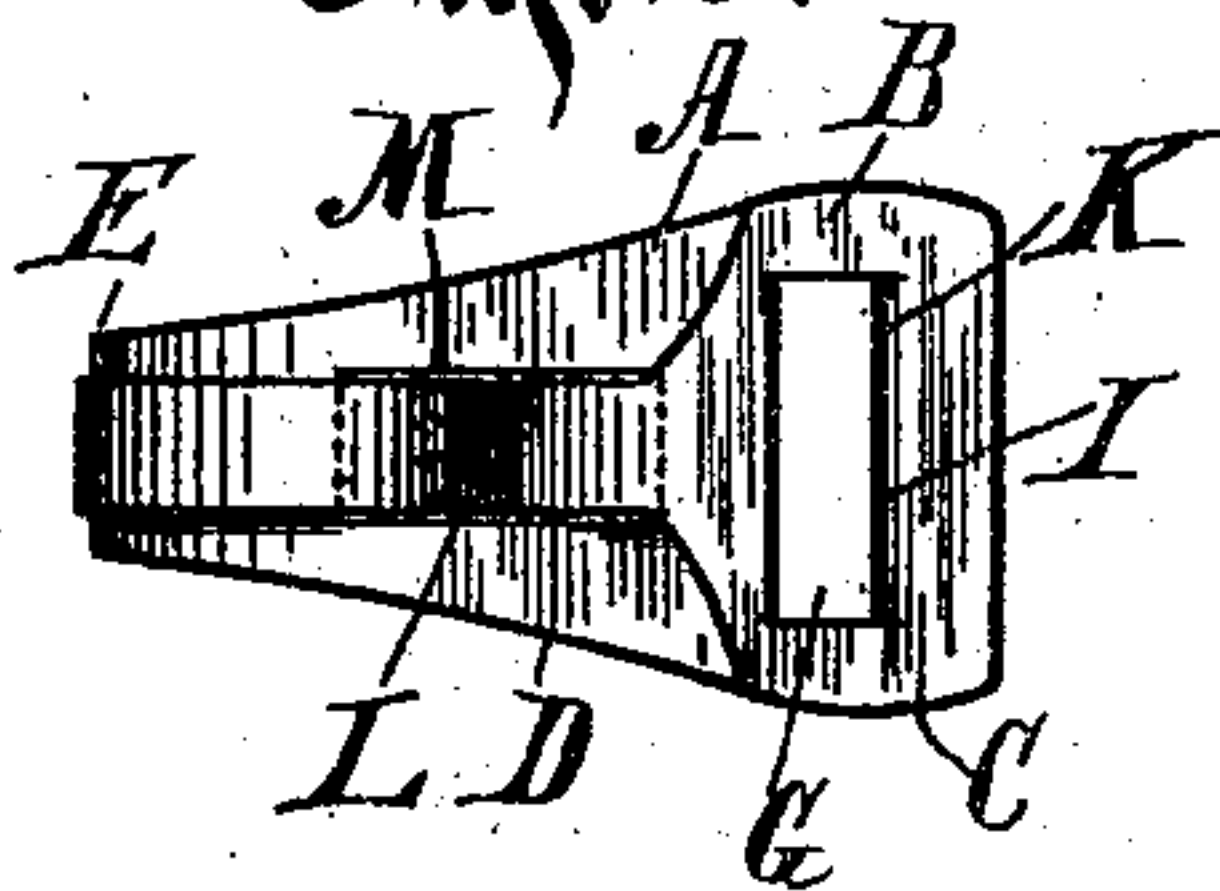
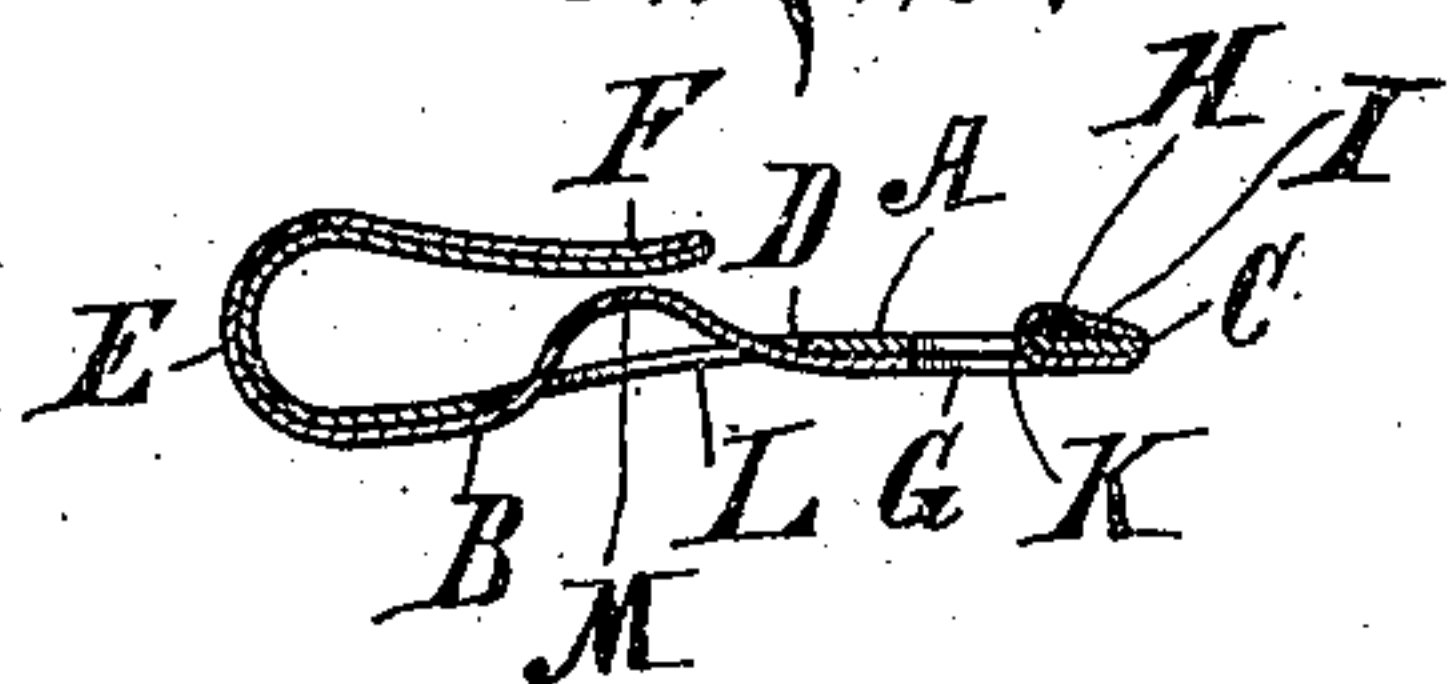


Fig. 3.



Witnesses.
C. H. Keeney
Anna C. Faust.

Inventor.
Harry S. Piggins
By Benedict Morell
Attorneys.

UNITED STATES PATENT OFFICE.

HARRY S. PIGGINS, OF MILWAUKEE, WISCONSIN.

HOOK.

SPECIFICATION forming part of Letters Patent No. 502,529, dated August 1, 1893.

Application filed April 11, 1893. Serial No. 469,872. (No model.)

To all whom it may concern:

Be it known that I, HARRY S. PIGGINS, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Hooks, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

The object of my invention is to provide an inexpensive, strong and durable hook of desirable form and adapted to secure useful results not heretofore obtained.

The invention consists in the hook and its parts as herein described and claimed or the equivalents thereof.

In the drawings, Figure 1, is a top view of my improved hook. Fig. 2, is an under side view of the same hook. Fig. 3, is a longitudinal section of the hook on line 3—3 of Fig. 1.

The hook is constructed integrally of elastic sheet metal. The blank of which the hook is formed, is produced by cutting or punching it from the sheet of metal. The blank is doubled upon itself at a point that becomes the free extremity of the bill of the hook, and the parts are thereafter shaped and secured to each other, in the manner hereinafter described.

The hook consists of an inner and principal member A, and an outer and reinforcing member B. The principal member of the hook has a tang C, a shank D gradually reduced in width from the tang outwardly toward the bend, a bend E, and the inner portion of the bill F. At the free end of the bill, the blank (as before described) is doubled and folded back upon itself, forming an additional and reinforcing outer layer of the bill, the bend, the shank and the tang. A laterally elongated slot G is formed in the member A in the tang, and a narrow strip H, of the rear portion of the metal cut on three sides to form the slot G, is turned over rearwardly against the surface of the metal, forming a double thickness of metal along the rear edge of the slot. The outer member B is also provided with a slot corresponding and registering with the slot G in the member A, and the metal tongue I, cut on three sides to form this slot in the outer member, is passed through the slot in the principal member and is turned over the strip H rearwardly, thus

clasping the two members together and forming a bar or rear part of the tang four layers in thickness, thereby establishing considerable strength in this rear part, and forming a front or bearing surface K thereto, adapted to receive a strap thereagainst on a sufficient bearing surface to avoid cutting or breaking the strap. The outer member B, at a point opposite the bill F near its extremity is bent inwardly and projects through a slot L in the principal member toward and nearly to the bill F, forming a spring and a stop, adapted to prevent the ring or analogous device engaged by the hook, from escaping therefrom. It will be noted that the outer elastic member of the hook along opposite the bill F, is of substantially the same width laterally as the bill, and considerably narrower than the tang D in this part, so that the projection M, forming the spring and the stop, passes freely and movably through the slot L, provided therefor in the inner member of the hook. It will be observed, that as the tongue I bears against the front edge of the rear bar or part of the tang, which it clasps, the outer member B is prevented from being moved or pushed at its rear extremity beyond the rear extremity of the member A, under any strain on the hook or on the spring. This is a valuable feature of the construction, as when a ring or eye is forced into the hook, between the bill and the spring M, the spring is forced backwardly and the strain is exerted longitudinally on the adjacent parts of the member B, tending to move or extend those parts longitudinally, which tendency at the tang extremity, is overcome by the clasping of the member B to the member A by the tongue I, which as described, is adapted to secure the member B to the member A against independent movement in that direction.

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

1. A hook formed integrally of sheet metal, consisting of a principal member comprising a tang, a shank having a slot, a bend, and a bill, and an exterior reinforcing member co-extensive longitudinally with the principal member of the hook, including a spring and stop formed in the reinforcing member by bending and projecting it inwardly through the slot in the shank of the principal member

toward and near to the bill of the hook, substantially as described.

2. The combination in a hook formed integrally of sheet metal, of a principal member
5 having a tang provided with a laterally elongated slot, an outer reinforcing member conforming to the bill and the bend, and provided with a projection extending toward the bill through a slot in the principal member
10 forming a spring and a stop, and provided with a slot registering with the slot in the tang of the principal member, and a tongue cut from the slot of the reinforcing member, turned upwardly against the rear edge of the
15 wall of the slot in the tang and over on to the rear part of the tang of the principal member, substantially as described.

3. A hook formed integrally of sheet metal, comprising a tang provided with a laterally
20 elongated slot, a shank having a slot, a bend,

a bill, an exterior reinforcing member co-extensive longitudinally with the principal member, a spring and stop formed in the reinforcing member by bending and projecting it inwardly through the slot in the shank of
25 the principal member toward and near to the bill of the hook, and a tongue cut from the tang of the reinforcing member forming a slot therein registering with the slot in the principal member, which tongue is turned
30 through the slot in the principal member against the rear wall of the slot and down upon the outer surface of the rear part of the principal member, substantially as described.

In testimony whereof I affix my signature in
35 presence of two witnesses.

HARRY S. PIGGINS.

Witnesses:

C. T. BENEDICT,
A. L. MORSELL.