

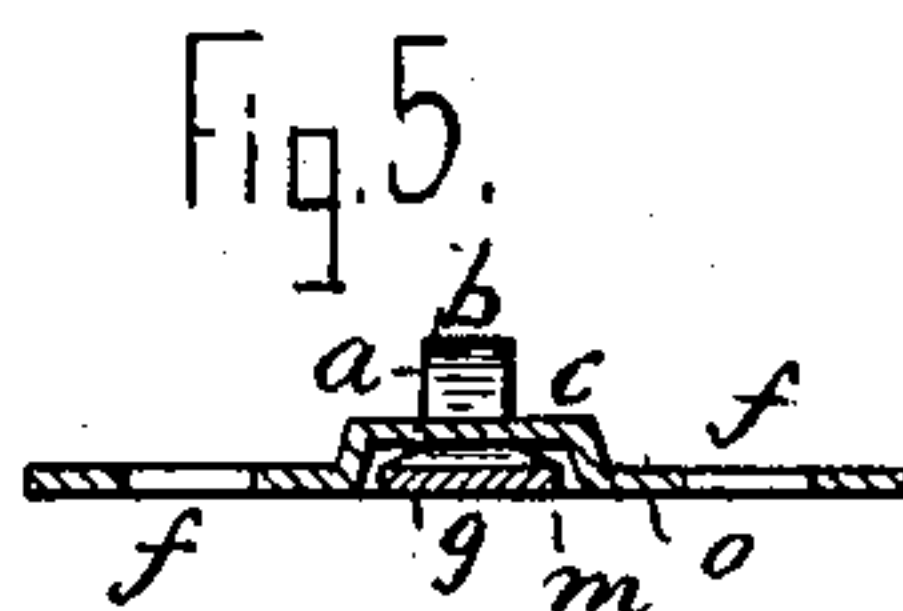
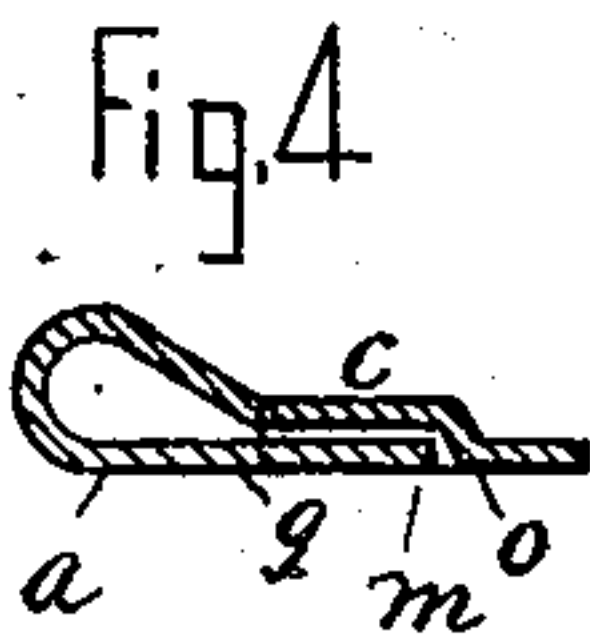
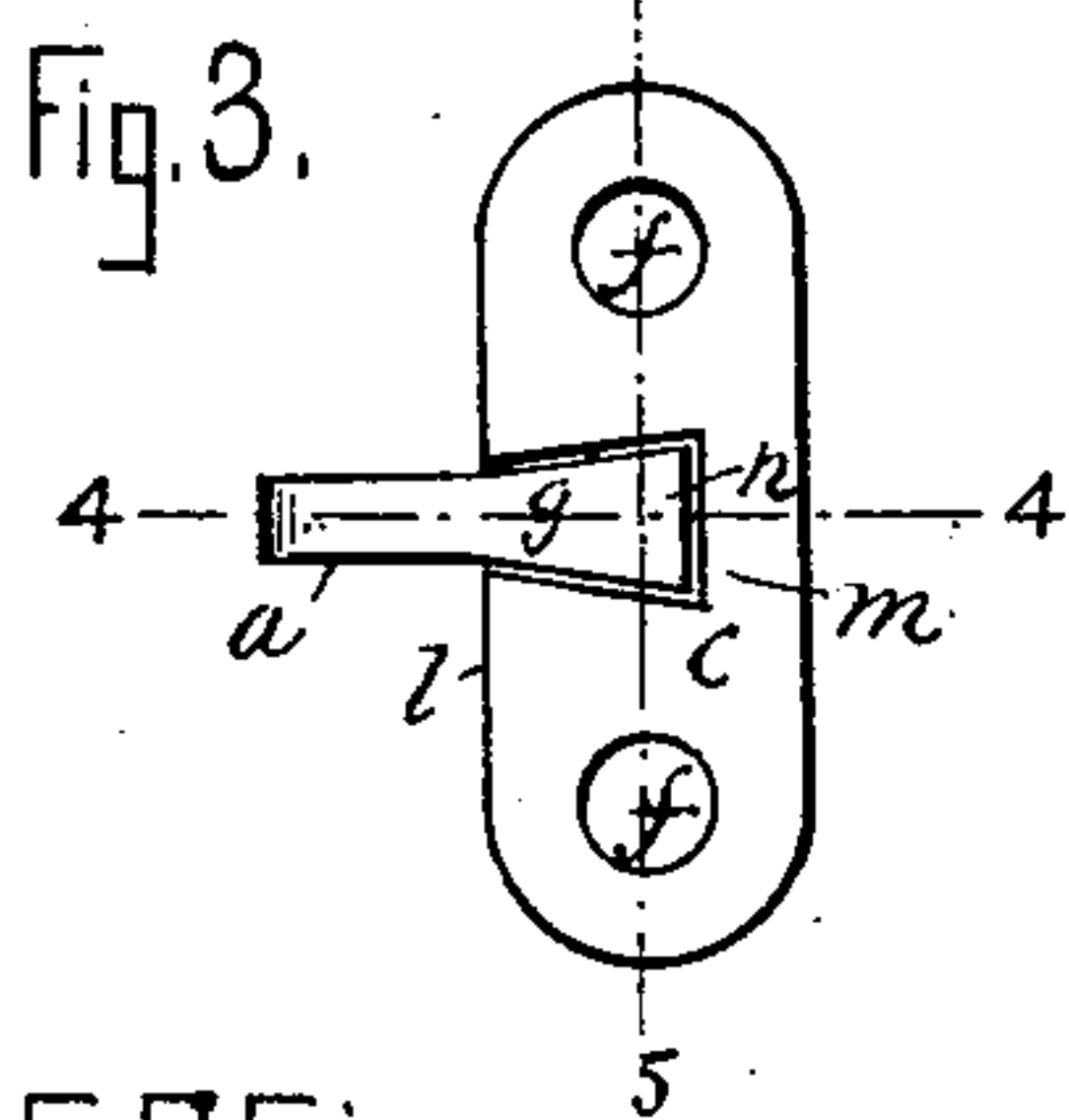
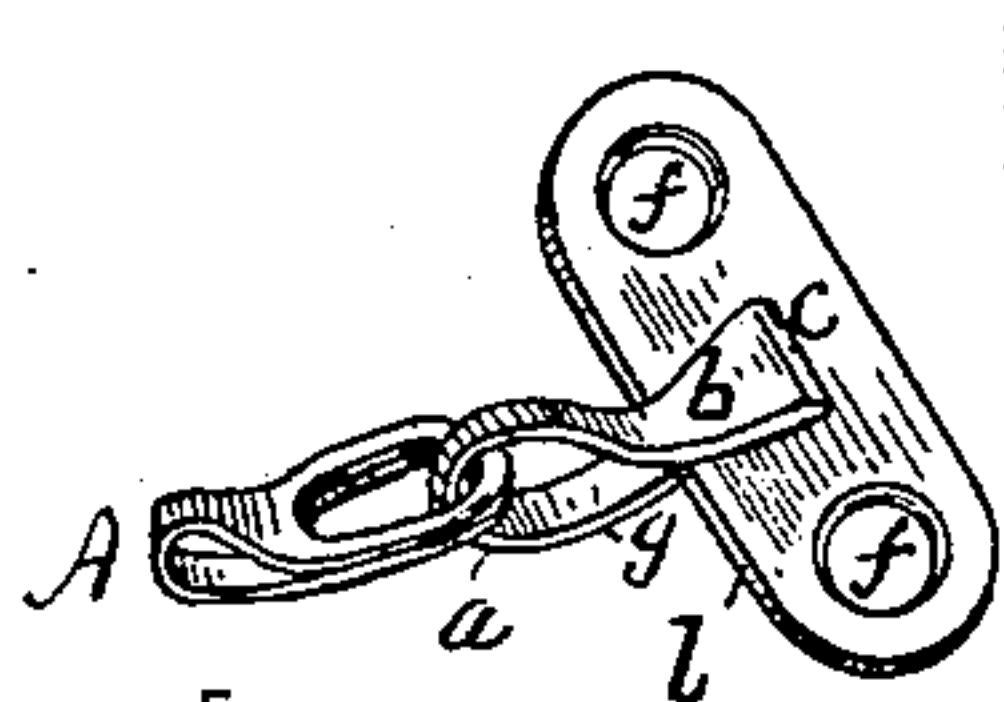
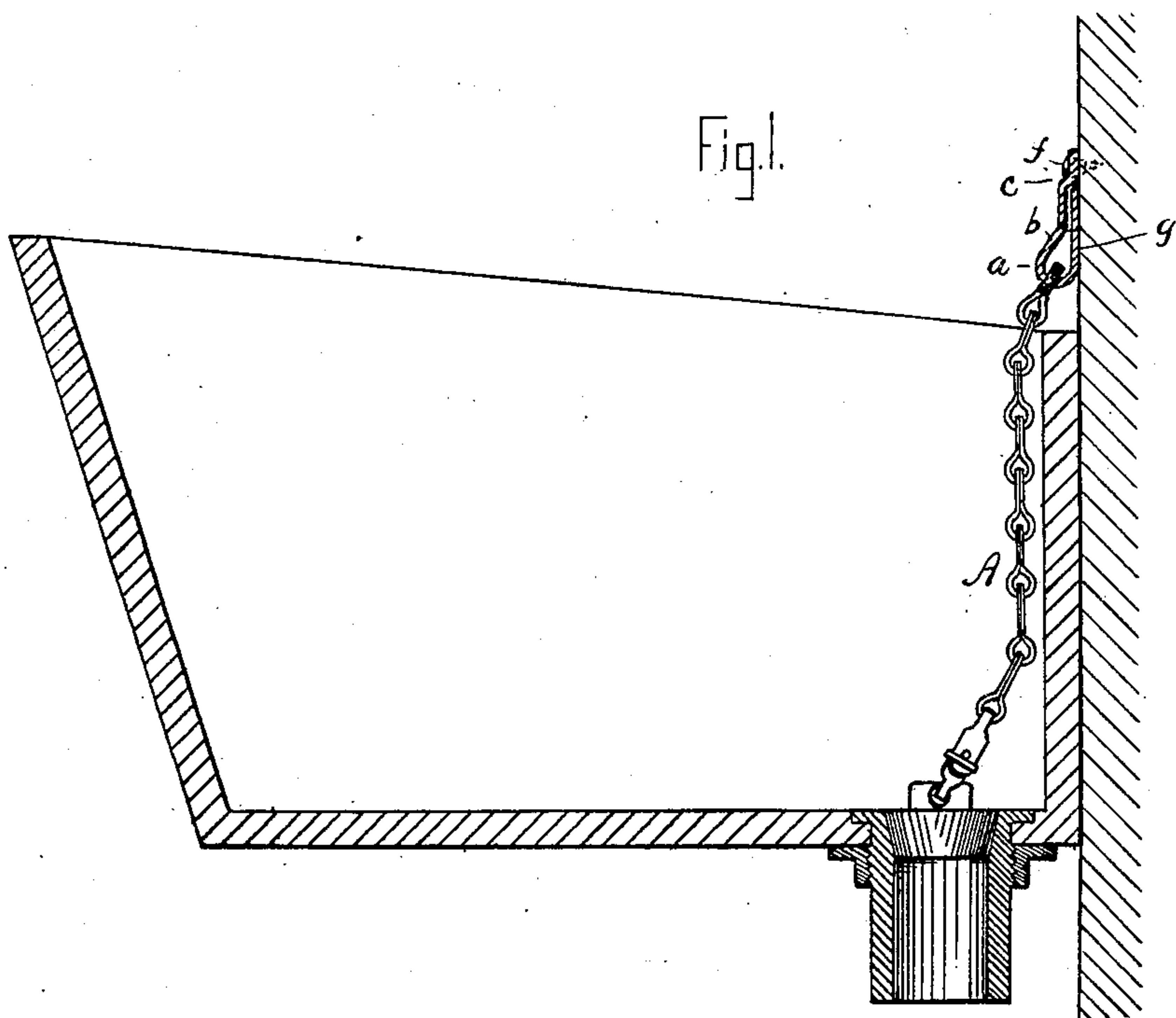
(No Model.)

P. W. DOHERTY.

STAPLE.

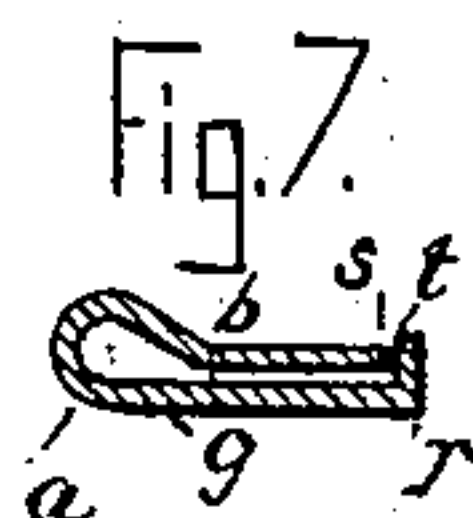
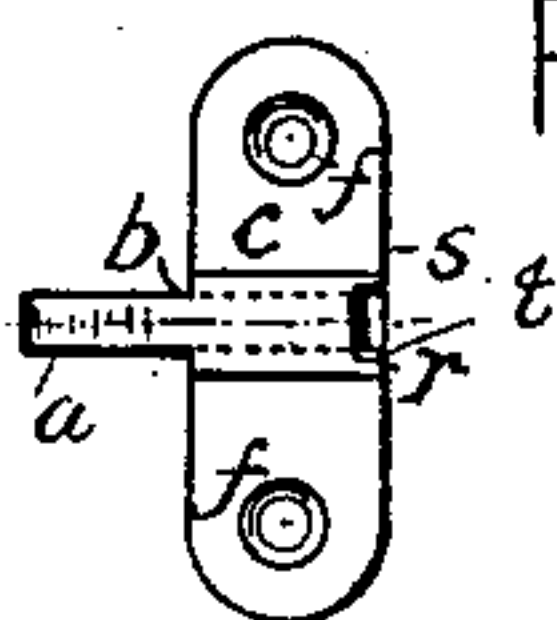
No. 247,023.

Patented Sept. 13, 1881.



Witnesses:

Wm. S. Bellows,
H. M. Keever.



Inventor.

P. W. Doherty,
Per Brown Bros.
Attorneys.

UNITED STATES PATENT OFFICE.

PATRICK W. DOHERTY, OF BOSTON, MASSACHUSETTS.

STAPLE.

SPECIFICATION forming part of Letters Patent No. 247,023, dated September 13, 1881.

Application filed February 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, PATRICK W. DOHERTY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Staples, of which the following is a full, clear, and exact description.

This improved staple is in substance formed of a bow-piece of metal, one arm of which terminates in a plate that projects to each side of it, and the other, together with said plate, is shaped to be interlocked with and disengaged from the other, and in such manner that interlocked the bow-piece of the staple is closed, and it is so held against opening, and thus the chain, hook, ring, or other contrivance or device suspended from the staple is secured against escape, accidental or otherwise, and that disengaged the staple is then open for the suspension or removal of the chain, hook, &c., as desired, all substantially as hereinafter described.

In the accompanying plate of drawings my improved staple is illustrated for convenience only in connection with the chain-stopper of a wash-tub, and Figure 1 is a vertical sectional view; Fig. 2, a perspective view of the staple; Figs. 3, 4, 5, 6, and 7, face and sectional views thereof, all as is obvious from the description which follows.

In the drawings, *a* represents a bow-piece of metal, which, in its arm *b*, terminates in a plate, *c*, which projects to each side thereof, and by preference is made in one piece with the bow *a*, and in each part of such projection is provided with a screw-hole, *f*, for convenience in attaching it, and consequently the staple, in the position desired. The arm *g* of the bow *a* has a length and direction to pass beyond the edge *l* of the plate *c*, at which the arm *b* meets said plate, and in such prolongation it and the plate are constructed to be interlocked with each other in a manner to close the bow *a*, to prevent escape, accidental or otherwise, of the chain *A*, which, as shown, is suspended from the bow, and to hold the arm firmly in such position against any strains or pulls upon the bow in the direction of the length of such arm *g*. This relative construction of the arm *g* and plate *c* (shown at *m*) consists in making the arm *g* to the bow *a* with a taper at and along each edge, and with the wider end *n* the far-

ther from the bow, and in correspondingly recessing the contiguous face *o* of the plate; and that shown at *r* consists in prolonging the arm *g* to the farther edge *s* of the plate, and there projecting it over and against such edge *s*, and in recessing, as at *t*, the face of the plate to receive the part of said prolongation which crosses it.

The staple herein described, after having suspended from it a chain or other device, when used, is to be fastened in any suitable manner—as, for instance, by screws—in position against any suitable support, with its interlocking face of the plate *c* and bow-arm *g* at rest against such support. Thus the bow is not only closed, but at the same time rigidly fixed, against opening, accidentally or otherwise, for the escape of the chain, &c., because of any pull or strain thereon, all for the reason that the two arms of the bow are interlocked with each other in the manner substantially as described.

An interlock between the arms *b* and *g* of the bow-piece *a* obviously may be secured in many ways other than the two herein particularly described, and yet secure the same result.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The within-described staple, consisting of the two arms *b* and *g*, connected by the bowed portion *a*, the end of the arm *b* being provided with a plate, *c*, and having means to connect and interlock it with the free end of the arm *g*, substantially as and for the purpose described.

2. A staple consisting of the two arms *b* and *g*, connected by the bowed portion *a*, the arm *b* having a plate, *c*, provided with a tapering depression, *o*, and the arm *g* having a tapering end adapted to said recess, by which it is confined and supported, substantially as and for the purpose described.

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

PATRICK W. DOHERTY.

Witnesses:

ALBERT W. BROWN,
WM. S. BELLOWS.