G. CLEMENTS.

CLIP.

APPLICATION FILED MAR. 24, 1913.

1,179,073. Patented Apr. 11, 1916.

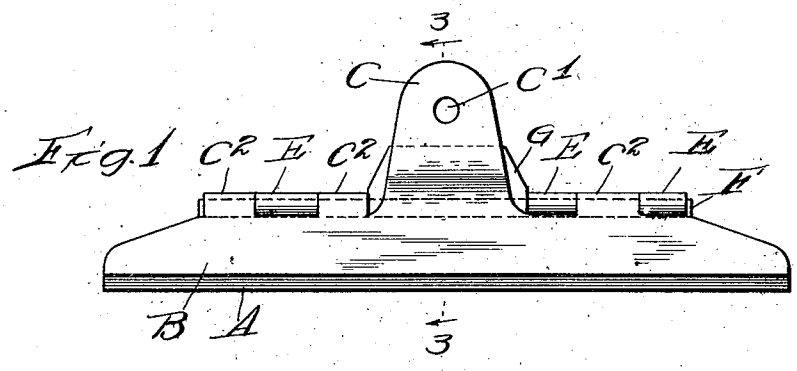


Fig. 1

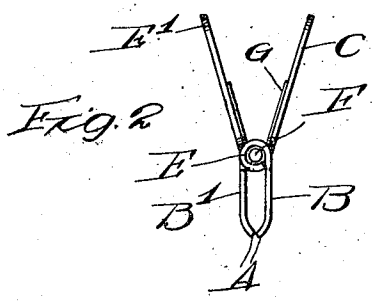


Fig. 2

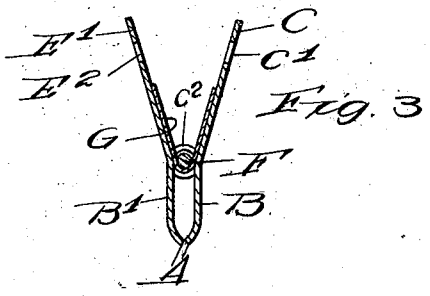


Fig. 3

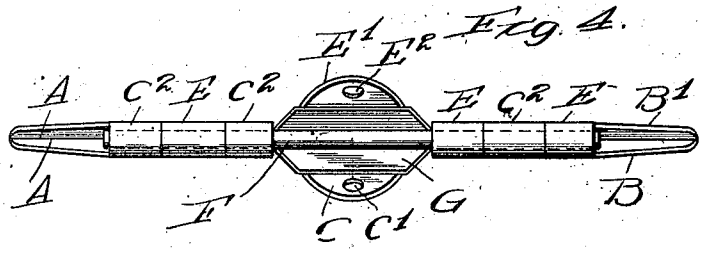


Fig. 4.

Witnesses.
Chas. F. Shumate
Minnie M. Lindeman

Inventor
George Clements
by Parker & Carter
his Att'ys

# UNITED STATES PATENT OFFICE.

GEORGE CLEMENTS, OF CHICAGO, ILLINOIS, ASSIGNOR TO CLEMENTS MANUFACTURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## CLIP.

1,179,073. Specification of Letters Patent. Patented Apr. 11, 1916.

Application filed March 24, 1913. Serial No. 756,316.

*To all whom it may concern:*

Be it known that I, GEORGE CLEMENTS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Clips, of which the following is a specification.

My invention relates to a clip and has for its object particularly to provide means whereby the clamping lips of the clip may be supported throughout their lengths and kept in proper and permanent alinement.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a side elevation of a complete clip; Fig. 2 is an end view; Fig. 3 is a cross section on the line 3—3 of Fig. 1; and Fig. 4 is a plan view.

Like parts are indicated by the same letter in all the figures.

A, A are clamping lips in opposition to each other and formed each on one of the side bars B, $B^1$. The side portion B is provided with an upwardly extending thumb piece C provided with the opening $C^1$ and with the cylindrical portions $C^2$, $C^2$ preferably made by providing a blank with a projecting portion and then bending this over so as to make the cylinder. The side bar $B^1$ is provided with similar cylindrical portions E, E and the similar thumb piece $E^1$ with the aperture $E^2$.

F is the transverse locking rod which passes through all of the cylindrical portions and holds the parts in position.

G is a flat, V-shaped spring which lies between the thumb pieces and under the rod and by pressing the thumb pieces away from each other tends to lock or hold the lips of the clamp together.

The parts described as here shown are preferably made as follows: The two side bars are struck out of sheet metal, their thumb pieces being outwardly bent, their lips being inwardly bent to form the clamping edges and their cylindrical portions being bent over into the shape desired. They are then dropped into a former and held in position. The V-shaped spring is then forced down between the thumb pieces and the rod then inserted through the several cylindrical parts and just above the lower V-shaped end of the spring. Thus the parts are locked together and the lips are furnished with a fixed axis of rotation and are firmly pressed and supported at their outer ends. In effect they are both pivoted on one and the same axis which is fixed with reference to both of them so that they are held in permanent alinement.

The form, structure, relation and shape of the several parts could, of course, be greatly altered without departing from the spirit of my invention. For instance, some other form of spring could be used, although what I have shown now appears to be the best. I do not wish, however, to be limited to the precise structure, form and relation of parts.

I claim:

1. A clamp made up of two jaws each having one edge cut away and rolled to form discontinuous tubular hinge members, the tubular hinge members on each jaw being in line with those on the other, integral thumb pieces projecting from the jaws between the hinge members, a flat V spring interposed between said thumb pieces having its apex substantially in line with the hinge members and a hinge pin passing through the hinge members and between the arms of the spring to hold the parts in position.

2. A clamp made up of two jaws each having one edge cut away and rolled to form discontinuous tubular hinge members, the tubular hinge members on each jaw being in line with those on the other, integral thumb pieces projecting from the jaws between the hinge members, a flat V spring interposed between said thumb pieces having its apex substantially in line with the hinge members and a hinge pin passing through the hinge members and between the arms of the spring to hold the parts in position, said jaws being exactly similar in size, shape and arrangement.

In testimony whereof, I affix my signature in the presence of two witnesses this 22nd day of March 1913.

GEORGE CLEMENTS.

Witnesses:
MINNIE M. LINDENAU,
MINNIE SUNDFAR.