

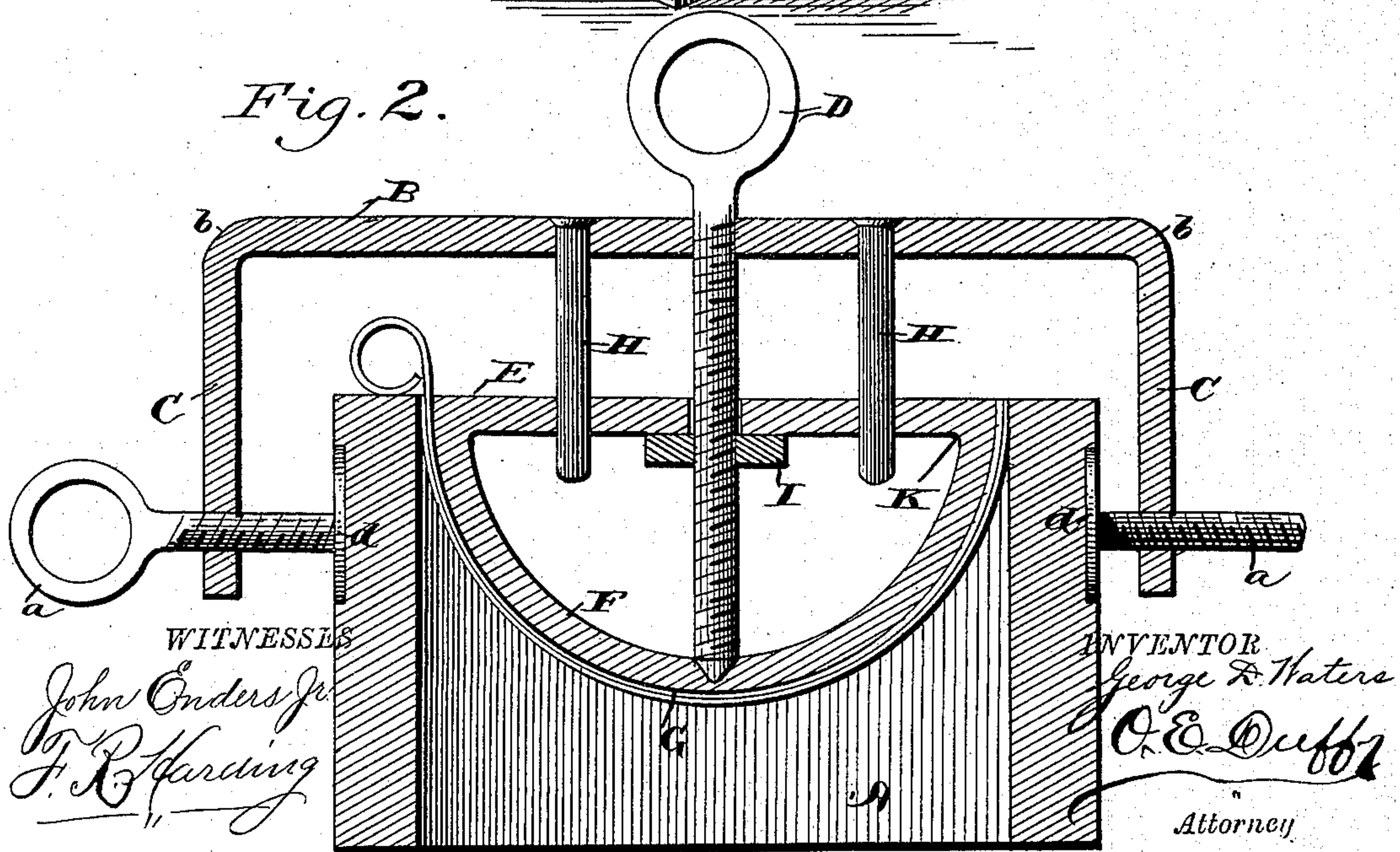
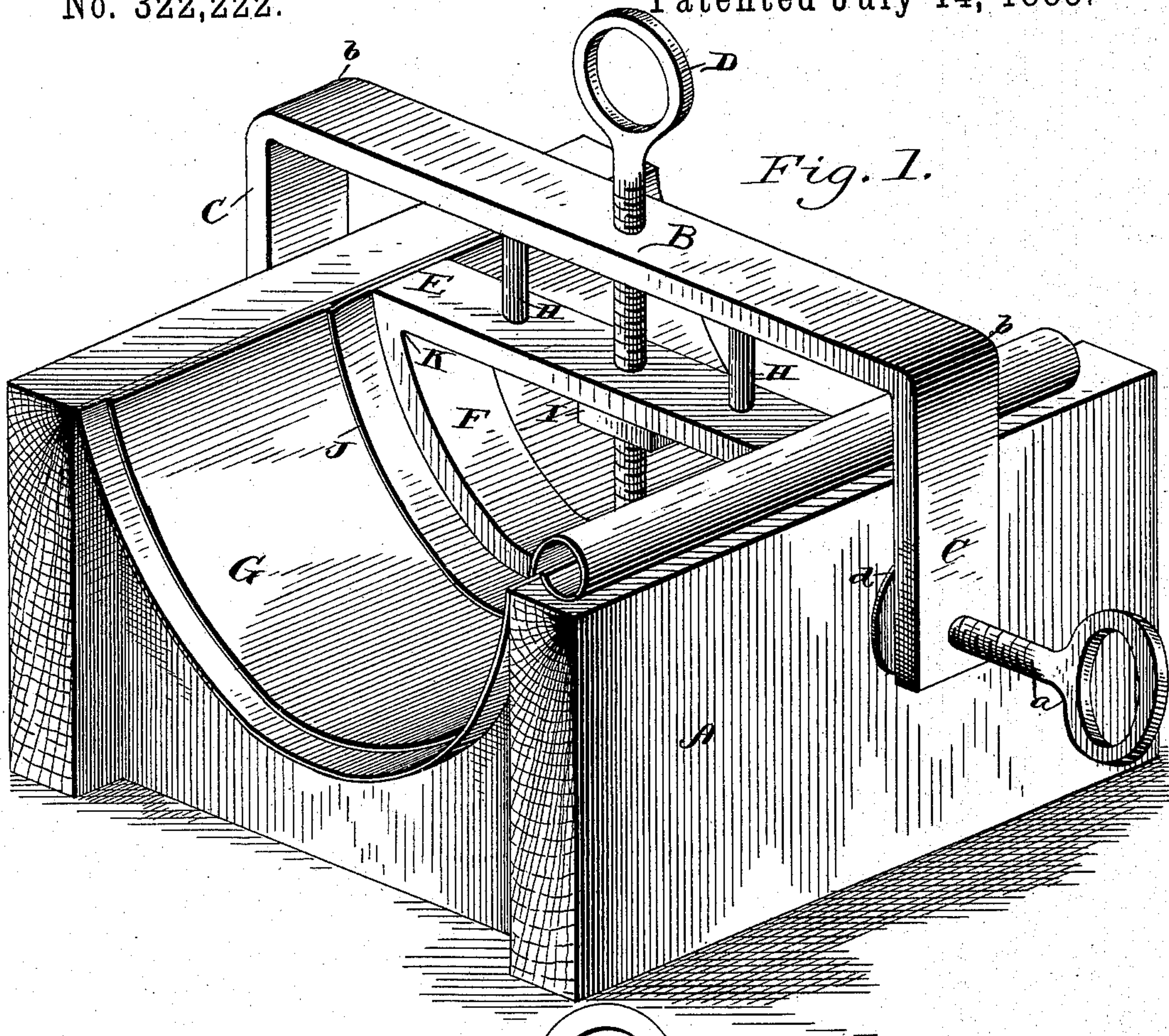
(No Model.)

G. D. WATERS.

CLAMP FOR EAVES TROUGHS.

No. 322,222.

Patented July 14, 1885.



UNITED STATES PATENT OFFICE.

GEORGE D. WATERS, OF CEDARVALE, KANSAS.

CLAMP FOR EAVES-TROUGHS.

SPECIFICATION forming part of Letters Patent No. 322,222, dated July 14, 1885.

Application filed May 9, 1885. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. WATERS, of Cedarvale, in the county of Chautauqua and State of Kansas, have invented certain new and
5 useful Improvements in Adjustable Gutter-Clasps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others
10 skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an improved device
15 for holding or clamping the sheets of tin or other metal used in making gutters or eaves-troughs in an advantageous position to be soldered or joined, and which may be so constructed as to be adjustable to any size
20 gutter.

The device is simple and efficacious in its method of operation, as will be seen from the accompanying drawings and the following description.

25 Referring to the figures, Figure 1 is a perspective view of my improved clamping device. Fig. 2 is a transverse section of the same.

Like letters of reference indicate corresponding
30 ing parts.

A designates the wooden frame or box used to hold the gutter G, which box is curved upon its upper side to correspond with the shape of the gutter G, which it is intended to
35 receive while it is being clamped for soldering or jointing.

B is the metallic yoke or cross-bar bent at the points *b b*, and having the descending arms C C parallel and in juxtaposition to the
40 sides of the box or frame A, and is firmly secured thereto by small thumb-screws *a a*, passing through screw-threaded holes in said arms and into the metallic plates *d d* on the sides of the box A. The eyebolt passes through the
45 metallic bar B at its central portion, and continues on loosely through the brace E, and into but not through the brace F of the clamping device proper, K. This is composed of the straight cross-brace E and the curved
50 brace F, which projects inwardly and conforms to the shape of the gutter or eaves-trough G. These metallic braces are made in

one piece, and are, when thus formed, in the shape of a semicircle, and its diameter, as shown in Fig. 2. The clamp K is guided and
55 forced in its descent to its bed upon the gutter by means of eyebolt D, and the metallic pins H H, serving as a guide for the clamp, are fastened in the cross-bar B on each side of the screw D, and pass loosely through holes
60 in the cross-brace E of the clamp K. The nut I, placed on screw-threads of the eyebolt D, and directly underneath the brace E, serves the purpose of raising the clamp K when it is desired to remove the seams of tin or other
65 material used in making eaves-troughs.

J designates the seam of the gutter G to be soldered or jointed.

The operation of my invention is as follows: The yoke or metallic cross-bar having been
70 attached to the sides of the box, the joints of the metal to be soldered are adjusted in the trough of the box, and the clamp K forced down and raised by means of the eyebolt D and nut I, the pins H serving to guide the clamp K
75 in its descent and ascent. The operator then solders the seam or joint, and raises the clamp to allow the gutter to be slid along to another seam.

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

1. A clamping device for gutters or eaves-troughs composed of a semicircular-shaped clamp, K, in combination with the eyebolt D,
85 yoke B, thumb-screws *a a*, plates *d d*, box A, and guiding-pins H, arranged to operate substantially as set forth and described.

2. A clamping device for gutters and eaves-troughs composed of a circular-shaped clamp,
90 K, in combination with eyebolt D, yoke B, thumb-screws *a a*, plates *d d*, and box A, substantially as set forth.

3. A gutter-clamp composed of a semicircular clamp, K, as before described, operated by
95 the eyebolt D, nut I, yoke B, and thumb-screws *a a*, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE D. WATERS.

Witnesses:

J. M. MACK,
O. H. HEFNER.