A. KAISER.

EAVES TROUGH CLAMP.

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1,051,416.

Patented Jan. 28, 1913.

Fig. 1.

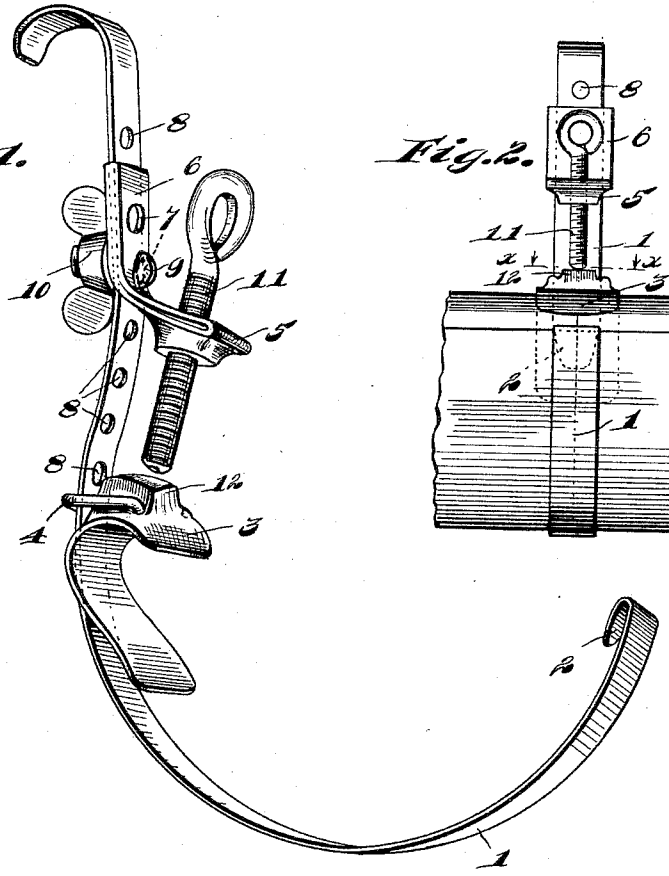
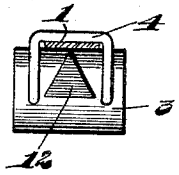


Fig. 2.

Fig. 3.



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EAVES-TROUGH CLAMP.

1,051,416. Specification of Letters Patent. Patented Jan. 28, 1913.

Application filed April 24, 1912. Serial No. 692,800.

To all whom it may concern:

Be it known that I, ANDREW KAISER, a citizen of the United States, and a resident of the city of De Kalb, county of Dekalb, and State of Illinois, have invented certain new and useful Improvements in Eaves-Trough Clamps, of which the following is a specification.

My invention relates to clamping devices for eaves-troughs, and more specifically to a device of this character designed especially for temporarily holding the adjacent ends of two trough sections in alinement and in close proximity with each other preparatory to soldering the same together.

The object of my invention is the production of a clamping device, as mentioned, which will be of improved construction and efficient in operation.

Other objects will appear hereinafter.

With these objects in view, my invention consists in the combinations and arrangements of parts hereinafter described and claimed.

My invention will be more readily understood by reference to the accompanying drawing forming a part of this specification, and in which—

Figure 1 is a perspective view of an eaves-trough clamp embodying my invention, Fig. 2 is a front view of the clamp, showing the same in operative position, and Fig. 3 is an enlarged detail section taken on line *x x* of Fig. 2.

The preferred form of construction, as illustrated in the drawing, comprises an elongated body 1 which is formed preferably of strap metal. One end of the body 1 is curved in form so as to conform with the transverse shape or cross sectional form of the eaves-trough which it is desired to embrace, the opposite end of the member 1 being substantially straight and disposed substantially tangentially to the curved portion thereof. The outer extremity of the curved portion of the member 1 is turned back to form a stationary jaw 2 which is adapted to embrace one edge of the trough in conjunction with which the same is used. Slidably mounted upon the member 1 at the other terminal of the curved portion of said body member, is a movable jaw member 3 which is adapted to embrace the other edge of the trough engaged, as will be readily understood. The jaw member 3 is provided with a loop 4 which engages around the body member 1 permitting of free sliding movement of said jaw member thereon.

Arranged upon the straight or tangentially extending portion of the body member 1 is a bracket 5, the portion 6 of said bracket being provided with perforations 7 for registration with perforations 8 which are provided in the adjacent portion of said body member. Said bracket 5 is secured in positions of adjustment upon the member 1 by means of a screw 9 which is adapted to removably engage either one of the perforations 7 and any one of the perforations 8 which is in registration with the perforation 7 engaged by said screw. Said screw 9 is held in position by a thumb nut 10 threaded thereon. Through the provision of a plurality of perforations 7 and 8, longitudinal adjustment of the bracket 5 upon the member 1 is evidently permitted in order to adapt the device for use in conjunction with eaves-troughs of various dimensions, as will be understood as the description proceeds. The portion of the bracket 5 engaging with the member 1 is channeled in form, as shown, in order to snugly embrace the member 1 so as to serve as a means of positively maintaining said bracket in proper position relative to said body.

Threaded in the outwardly projecting portion of the bracket 5 is a thumb screw 11 adapted to engage the movable jaw member 3 to hold the latter in clamping engagement, as will be readily understood. The upper side of the jaw member 3 is preferably provided with a boss 12 for engagement with the extremity of said screw.

In using the clamp, the trough sections to be soldered together are arranged in the curved portion of the clamp with their extremities registering and in close proximity with each other. The jaw portion 2 is engaged with one edge of the trough, whereupon the movable jaw member 3 is moved into engagement with the other edge. The bracket 5 is then adjusted upon the member 1 in order to position the screw 11 in operative proximity with the jaw member 3, whereupon said screw is rotated in order to force the jaw member 3 into clamping engagement with the trough sections and thereby serve to securely hold said sections in registration so that soldering thereof together may be readily and easily effected. Upon the soldering operation being completed, the clamp may be readily and expe-

ditiously removed by loosening the screw 11, as will be readily understood.

A clamp of the construction set forth is durable and economical in construction, and will be found to be of high efficiency in use.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the exact details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A clamp for eaves-troughs comprising a body member formed to conform substantially with the transverse shape of the trough to be embraced; a stationary jaw on said body member for engaging one edge of the trough; a movable jaw adjustably mounted on said body member for clampingly engaging the other edge of the trough; a bracket adjustably mounted on said body member; and a screw threaded in said bracket and adapted to engage said movable jaw to hold the same in positions of adjustment, substantially as described.

2. A clamp for eaves-troughs comprising an elongated body member having one end curved to conform substantially with the transverse shape of the trough to be embraced, the opposite end of said body being substantially straight and disposed substantially tangentially to said curved portion; a stationary jaw formed at one extremity of said curved portion for engagement with one edge of the trough; a movable jaw member slidably mounted upon said straight portion and adapted to engage the other edge of the trough; a bracket adjustably secured to said last mentioned body portion; and a screw threaded in said bracket and adapted to engage said movable jaw to hold the same in clamping position, substantially as described.

3. A clamp for eaves-troughs comprising an elongated body member having one end curved to conform substantially with the transverse shape of the trough to be embraced, the opposite end of said body being substantially straight and disposed substantially tangentially to said curved portion; a stationary jaw formed at one extremity of said curved portion for engagement with one edge of the trough; a movable jaw member slidably mounted upon said straight portion and adapted to engage the other edge of the trough; a bracket adjustably mounted upon said straight body portion, there being a plurality of spaced perforations in said straight body portion registerable with a perforation in the adjacent portion of said bracket; means engaging said perforations for securing said bracket to said body member; and a screw threaded in said bracket adapted to engage said movable jaw to hold the same in clamping position, substantially as described.

4. A clamp for eaves-troughs comprising an elongated body member having one end curved to conform substantially with the transverse shape of the trough to be embraced, the opposite end of said body being substantially straight and disposed substantially tangentially to said curved portion; a stationary jaw formed at one extremity of said curved portion for engagement with one edge of the trough; a movable jaw member slidably mounted upon said straight portion and adapted to engage the other edge of the trough; a bracket adjustably mounted upon said straight body portion, there being a plurality of spaced perforations in said straight body portion registerable with a perforation in the adjacent portion of said bracket, the portion of said bracket engaging with said body member being channeled to embrace the latter: removable means engaging said perforations for securing said bracket to said body member in positions of adjustment; and a screw threaded in said bracket adapted to engage said movable jaw to hold the same in clamping position, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW KAISER.

Witnesses:
JOHN A. DOWDALL,
MAY RONAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."