

D. MASOR.
ADJUSTABLE CLAMP
APPLICATION FILED APR. 5, 1912.

1,043,711.

Patented Nov. 5, 1912.

Fig. 1

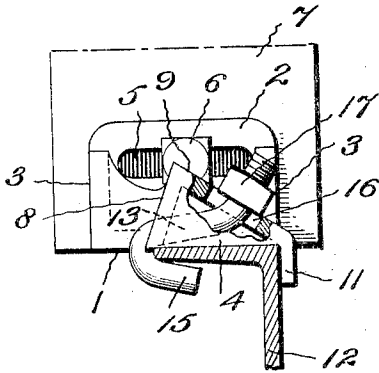


Fig. 4.

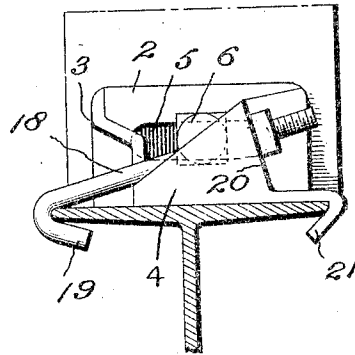


Fig. 2.

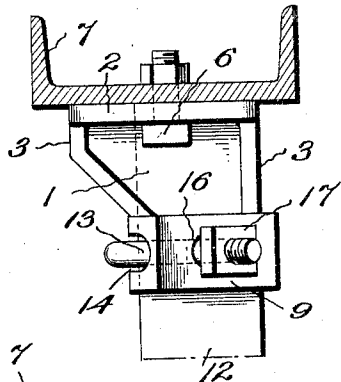


Fig. 3.

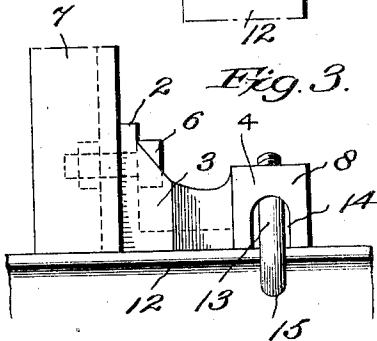
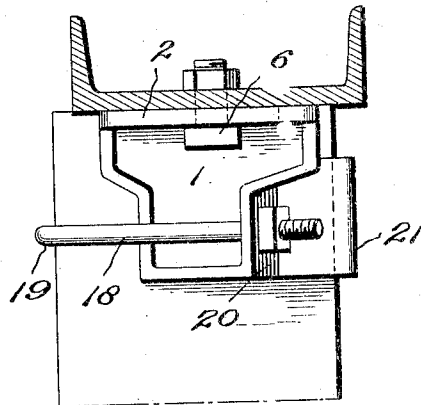


Fig. 5.



WITNESSES

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ADJUSTABLE CLAMP.

1,043,711.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DANIEL MASOR, a citizen of the United States, residing at 2360 Lorillard Place, Bronx, in the city and county of New York and State of New York, have invented new and useful Improvements in Adjustable Clamps, of which the following is a specification.

This invention relates to certain new and useful improvements in adjustable clamps for structural iron work and has for its object to provide a device of this character that is simple in construction, cheap to manufacture and one that can be readily applied and quickly adjusted when necessary.

With these and other objects in view, the invention consists in the novel details of construction and combination of parts more fully hereinafter described and particularly pointed out in the claims.

Referring to the drawings forming a part of this specification in which like reference characters refer to like parts throughout the several views,—Figure 1 is a front view of my improved device shown connecting a beam and upright and also showing a part broken away for the sake of clearness. Fig. 2 is a plan view of the parts shown in Fig. 1. Fig. 3 is a side elevational view of the parts shown in Figs. 1 and 2, but looking toward the right. Fig. 4 is a front elevational view of a modified form of clamp also shown connecting a beam and upright, and Fig. 5 is a plan view of the parts shown in Fig. 4.

Heretofore in the joining of beams and uprights in structural iron work, difficulty has been experienced in drilling the necessary holes and providing the proper uniting means, and a great deal of valuable time is lost in the operation, therefore I propose by the use of my invention to eliminate all of these objectional features and accomplish the desired result in a quick and cheap manner.

In the form of device shown in Figs. 1 to 3, my adjustable clamp comprises the horizontal base 1 provided with the vertical rear wall 2, sides 3 and front block or housing 4; 5 indicates a slot provided in the rear wall 2 for receiving a bolt 6 for securing the clamp to the upright channel 7. The front block or housing 4 is provided with the inclined front wall 8 and sloping top wall 9, which is extended at its rear to form a depending flange 11 which flange is adapted to engage and grip the side of the channel

beam 12 when the clamp is secured in place. A bolt 13, preferably of the shape shown in Fig. 1, is held within the block 4 and projects at one end through the slotted opening 14, in the inclined front wall 8, and is bent to form a hook 15 which hook is adapted to engage the end of the channel beam 12 opposite the depending flange 11. The other or threaded end of the bolt 13 passes at right angles through a slot 16 in the sloping top wall 9, and is provided with a nut 17 by which it is securely fastened in place. By reason of the bolt being made of the form shown and cooperating at right angles with the sloping top wall 9, it will be seen that when the nut 17 is tightened, the hook not only has an upward or direct pull but a lateral pull toward the depending flange 11 as well.

In the modified form shown in Figs. 4 and 5, the construction is somewhat similar to that shown in Figs. 1 to 3. In this form I have shown my improved clamp for connecting I beams and channel uprights. The clamp is held to the channel upright in the same manner as the preferred form but bolt 18 is straight, being provided with the hook 19 for engaging one flange of the I beam, and held in an inclined manner by the inclined side wall 20 through which it passes. An inwardly depending hook 21 projects from the clamp and engages the other flange of the I beam as shown, and it may be seen that when the bolt 18 is tightened, the hook 19 is drawn against one flange of the I beam and the hook 21 engages the other flange of the I beam securely connecting the beam and channel together.

From the foregoing, it may be seen that my improved adjustable clamp may be quickly put into operation in structural construction or readily taken apart when desired.

It is obvious that many other variations may be made in the details of construction and combination of parts without departing from the spirit and scope of my invention, therefore, I do not wish to be limited to the exact construction as shown.

What I claim as new is,—

1. In a clamp for uniting beams and uprights in structural iron work, the combination of a base plate, a flange formed on said base plate and adapted to engage one side of the said beam, a clamp bolt disposed oppositely to said depending flange and adapted

to engage the other side of the said beam, an upright wall provided with a horizontally disposed slot and mounted on said base plate, and a bolt mounted within said slot for connecting said clamp to said upright, substantially as described.

2. In an adjustable clamp for uniting beams and uprights in structural iron work, the combination of a base plate, a depending flange arranged on the said base plate and adapted to engage one side of the said beam, a block or housing provided with angularly disposed slots and mounted on the said base plate, a clamping bolt mounted within the said slots and adapted to engage the other side of the said beam and means for connecting the said clamp to the said upright substantially as described.

3. In a clamp for uniting beams and uprights in structural iron work, the combina-

tion of a base plate, a depending flange mounted on the said base plate and adapted to engage one side of the said beam, a block or housing mounted on the said base plate and provided with a sloping top wall and an inclined front wall, both of said walls being provided with slots, a clamping bolt mounted within the said slots and adapted to engage the other side of the said beam, an upright wall mounted on the said base plate and provided with a horizontally disposed slot, and a bolt mounted within said slot for connecting the said flange to the said upright substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

DANIEL MASOR.

Witnesses:

BARNET MASOR,
GEO. A. BYRNE.