

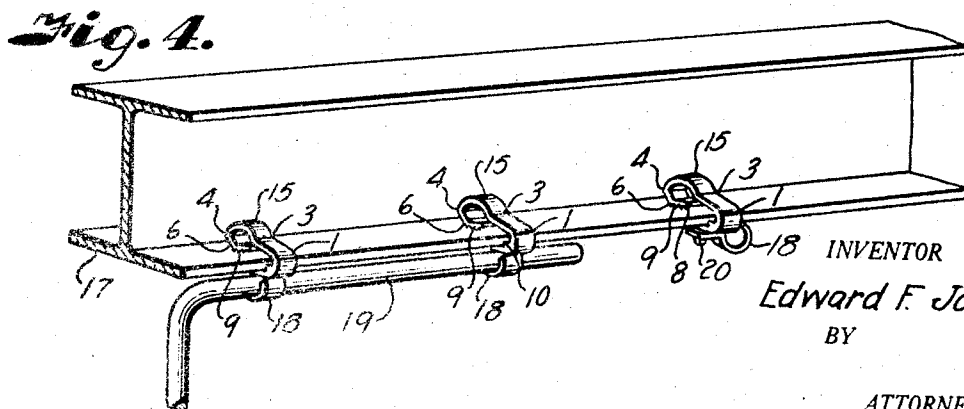
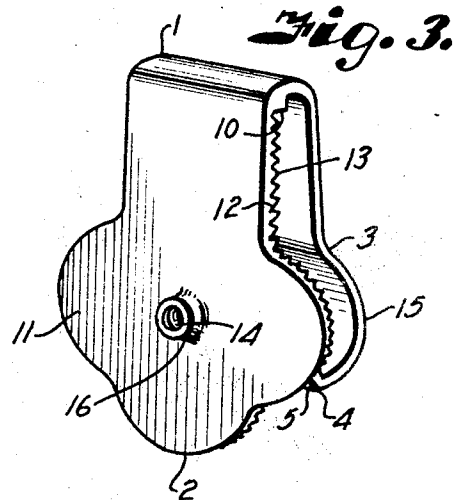
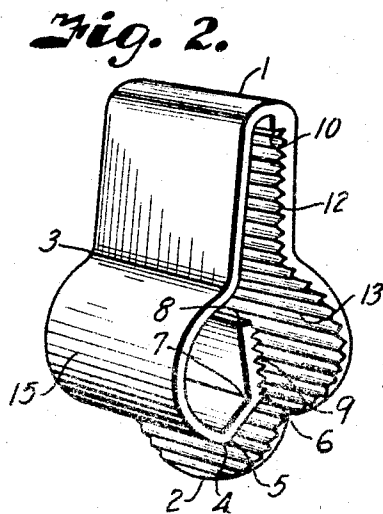
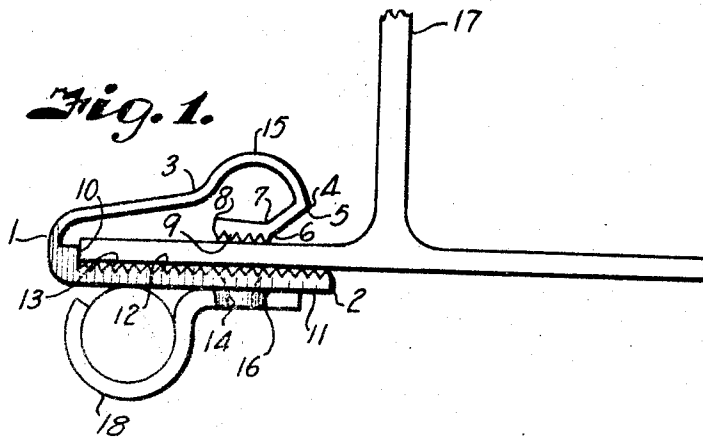
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CLAMP

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## UNITED STATES PATENT OFFICE

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## CLAMP

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1 Claim. (Cl. 24—259)

This invention relates to a device for hanging pipe, conduits, switch boxes and the like to the face or flange of steel beams or the like.

It is often difficult to hang pipe, wire, switch boxes and the like to the underside of bridges, automobile, truck and car bodies and other objects which do not provide for easy nailing of holders for such objects.

The object of the present invention is to provide a device which may be easily and quickly applied to a support for holding a pipe, wire, conduit or the like to such support, and is particularly adaptable for use in boiler rooms, engine rooms, warehouses, and the like.

Another object of the invention is to provide a device which is simple, durable, efficient and economical to manufacture.

In accomplishing these and other objects of the invention, I have provided improved details of structure, the preferred form of which is illustrated in the accompanying drawing, wherein:

Fig. 1 is a side view of the clamp embodying the features of my invention.

Fig. 2 is a perspective view of the device, particularly illustrating the loop portion on one leg of the device.

Fig. 3 is a perspective view taken from the opposite side from Fig. 2.

Fig. 4 is a perspective view of a clamp embodying the features of my invention applied to a support.

Referring more in detail to the drawing:

1 designates a clamp made from a single piece of flat spring steel or the like bent to form two leg portions 2 and 3. The upper leg portion is bowed outwardly as shown at 4 and downwardly to 4, thence obliquely inwardly at 5 and horizontally at 6 to form a member, 7—8, and provided with ribs or teeth 9 on the underside thereof for engaging a support to which the clamp is to be attached.

The oblique face shown between 5 and 6 (Fig. 1) forms a guide for the clamp when applying same to a support such as the flange of an I-beam 11.

The lower leg portion 2 is provided with an off-set portion 10 to engage the edge of a beam flange to act as a stop when the clamp is applied thereto.

14 designates the underface of the leg member 50

2, the opposite side of said leg portion being provided with ribs or teeth 13 for engaging the support for the clamp.

The leg member 2 is provided at about the center thereof with a threaded aperture 14 in a boss 16 projecting outwardly from the lower surface of the member 11, to which a strap or hook member 18 is fastened by a bolt 20 for holding a pipe, conduit or the like 19 in desired position by the clamp.

In using a device constructed and assembled as described, the mouth of the clamp is placed over the flange of a support and comes to rest against the oblique portion (5—6). By striking the rear of the clamp with a hammer or other tool the oblique portion will permit easy opening of the clamp so that it may be slipped over the support and come to rest against the off-set portion 10. The teeth 9 and 13 on the leg portions will engage the support and tend to grip the support and hold the clamp securely thereon.

Adjustment of the bolt 20 in the bossed aperture 14 will permit turning of the strap member 18 so that the pipe or other object to be held by the clamp may be inserted in the hook portion of the strap and the bolt tightened to firmly hold such pipe in place.

From the foregoing it is obvious that I have provided an efficient, simple and durable clamp for use on bridges, trucks, cars and the like where ordinary clamps are not practical.

I claim as my invention:

A clamp for attachment to a substantially flat support, said clamp being formed from a single piece of spring sheet material bent to a substantially U-shape providing leg portions, one of said leg portions having gripping teeth throughout its entire inner surface and having a shoulder at its inner end to engage said support when the clamp is applied thereto, and a loop portion formed on the outer end of the opposite leg, said loop having a cam surface intermediate the free end thereof for engaging said support when the clamp is to be applied thereto and the extreme inner end of the loop having teeth facing the teeth on the opposite leg for engaging said support when the clamp is finally applied to the support.

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