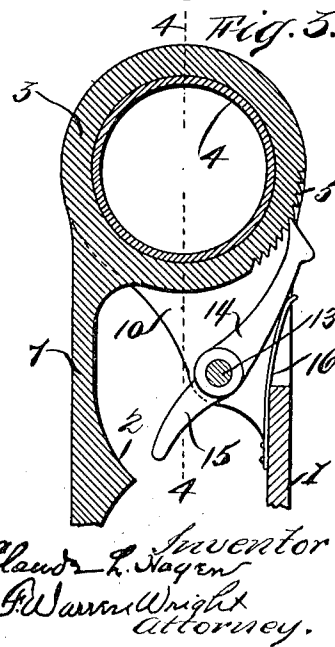
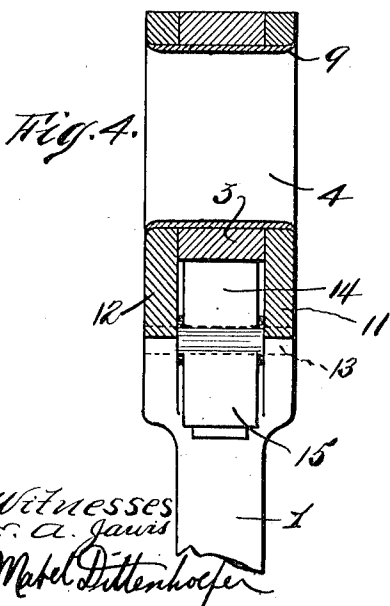
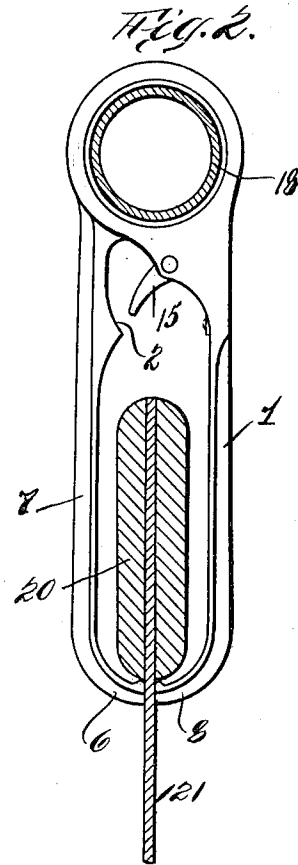
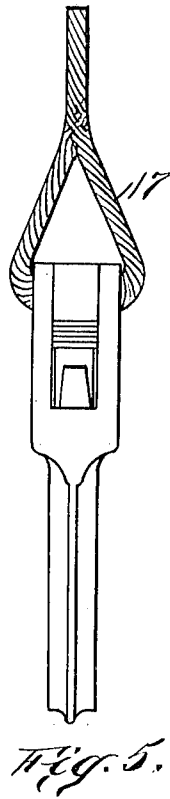
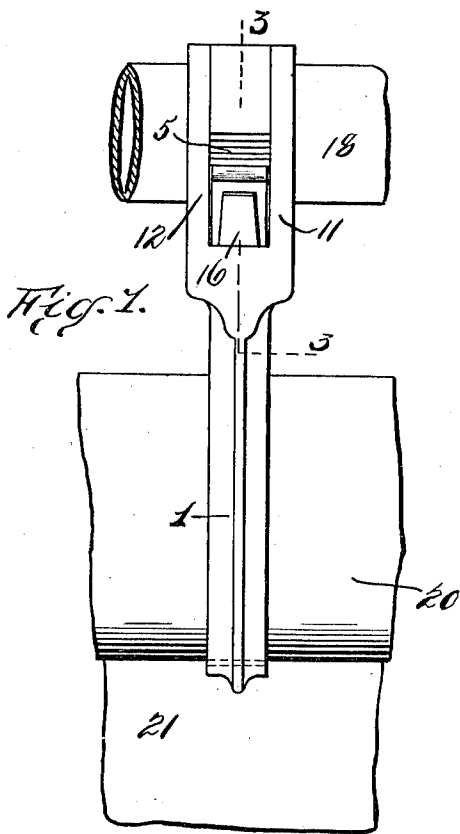


C. L. HAGEN.
CLAMP.

APPLICATION FILED MAY 28, 1910.

1,063,970.

Patented June 10, 1913.



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CLAMP.

1,063,970.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed May 28, 1910. Serial No. 563,893.

To all whom it may concern:

Be it known that I, CLAUDE L. HAGEN, a citizen of the United States, residing at New York city, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Clamps, of which the following is a clear, full, and exact description.

This invention relates to an improved clamp, and particularly to a clamp which is adapted to engage theatrical scenery by grasping the batten of one or more pieces.

The object of the invention is to provide a batten clamp which may be caused to readily engage the piece of scenery and be locked in its engaged position against accidental displacement.

It is a further object to so construct the clamp that it will lock in position varying thicknesses of battens or other articles which it may surround.

In carrying out my invention I provide a clamp having two hinged jaws. The hinged portion I secure to any suitable hanging means, such as a pipe running through a hollow sleeve or a cable passing through such sleeve. One of the hinged jaws carries on its periphery ratchet teeth preferably on a portion thereof only. The other hinged jaw carries a pawl adapted to engage the ratchet teeth. The first said hinged jaw carries a protecting guard which projects into the space between the two jaws, and guards the latch or operating end of the pawl. The jaws themselves I prefer to provide with inturned curved ends meeting each other so that when closed, the jaws will lie substantially parallel, providing a space between the two to accommodate a theatrical batten or other device to be grasped by the clamp.

The scope of my invention will be pointed out in the claims.

In the accompanying drawings, Figure 1 is a front view of a portion of a batten, a pipe on which the clamp may be mounted, and the clamp of my invention. Fig. 2 is a view at right angles to Fig. 1. Fig. 3 is a section on line 3—3 Fig. 1. Fig. 4 is a section on line 4—4 Fig. 3. Fig. 5 is a view similar to Fig. 1 drawn to a reduced scale, showing a spliced cable as a supporting means.

As shown in the drawings: the clamp is provided with two members; a member 7 provided with a guard 2, a hub 3 mounted

to turn on an internal bushing or sleeve 4. The hub of the member 7 is provided with a ratchet 5. The lower end 6 is preferably inturned as shown in Fig. 2. The other member or jaw 1 is provided with an inturned end 8 similar to the end 6 of the member 7. It is bifurcated and straddles the hub 3 of the jaw 7 turning on the bushing 4. The bushing may be expanded as shown at 9, Fig. 4, to fasten the two members together. The jaw member 1 is provided with a web 10 joining it to its hubs 11 and 12. In the web 10 there is secured a shaft 13, on which is pivotally secured a pawl 14, extending through the bifurcated opening, and adapted to engage the ratchet 5. A handle for the pawl 15 extends into the space between the two jaws, so that the handle will form a substantial continuation of the guard 2 of the member 7. A spring 16 secured to the member 1 rests against the ratchet 5 to cause it to engage the pawl 14.

In operation, the clamp may be fastened to a cable 17, which may be spliced as shown in Fig. 5, or the ordinary transverse pipe secured to cables reaching to the roof may be run through the central bushing of the clamp. Such a pipe 18 is shown in Fig. 1.

In operation, the handle for the pawl 15 is depressed, disengaging the pawl from the ratchet 5, and the jaws swung open. In their open position they may be placed around the batten 20 of an ordinary scene drop 21, or other device, and when the jaws are closed one upon the other, as shown in Figs. 2 and 3, the ratchet will lock the jaws in the position there illustrated against danger of displacement.

In carrying out this invention, details of construction may be varied from those shown, and yet the essence of the invention be retained; some parts might be employed without others, and new features thereof might be combined with elements old in the art in diverse ways, although the herein described type is regarded as embodying substantial improvements over such modifications.

As many changes could be made in the above construction, and many apparently widely different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted in an illustrative and not in

a limiting sense except as defined by the appended claims. It is furthermore desired to be understood that the language used in the following claims is intended to cover all the generic and specific features of the invention herein described, and all statements of the scope of the invention which as a matter of language might be said to fall therebetween.

10 I claim as my invention:

1. The herein described clamp, comprising two members, pivoted relatively to each other, said members being provided with intumed ends, and sides, substantially parallel one with the other when the members are in a closed position, whereby a space is provided between said members and above the intumed ends thereof, a ratchet carried by one of said clamp members and located adjacent the pivoted end thereof, a pawl carried by the other of said clamp members adjacent the pivoted end thereof adapted to engage said ratchet, a handle carried by said pawl extending into the space between said clamp members, and a guard for said handle.

2. The herein described clamp comprising

two members pivotally connected at one end thereof, a tubular hub carried by one of said members, ratchet teeth carried by said hub, the other of said members being provided with a tubular bifurcated end adapted to straddle the hub on the member first named, a pawl carried by the last named member adapted to engage the ratchet on said hub, the free end of each of said clamp members being intumed and adapted to meet a handle for said pawl entering the space between said members, a guard for said handle carried by the clamp member having the hub thereon, said guard and said pawl being located sufficiently remote from the intumed ends of said clamp members to provide a space for the reception of a member to be inclosed and a bushing adapted to hold said clamp members together at their pivotally connected ends.

Signed at Cincinnati Ohio this 19th day of May 1910.

CLAUDE L. HAGEN.

Witnesses:

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