

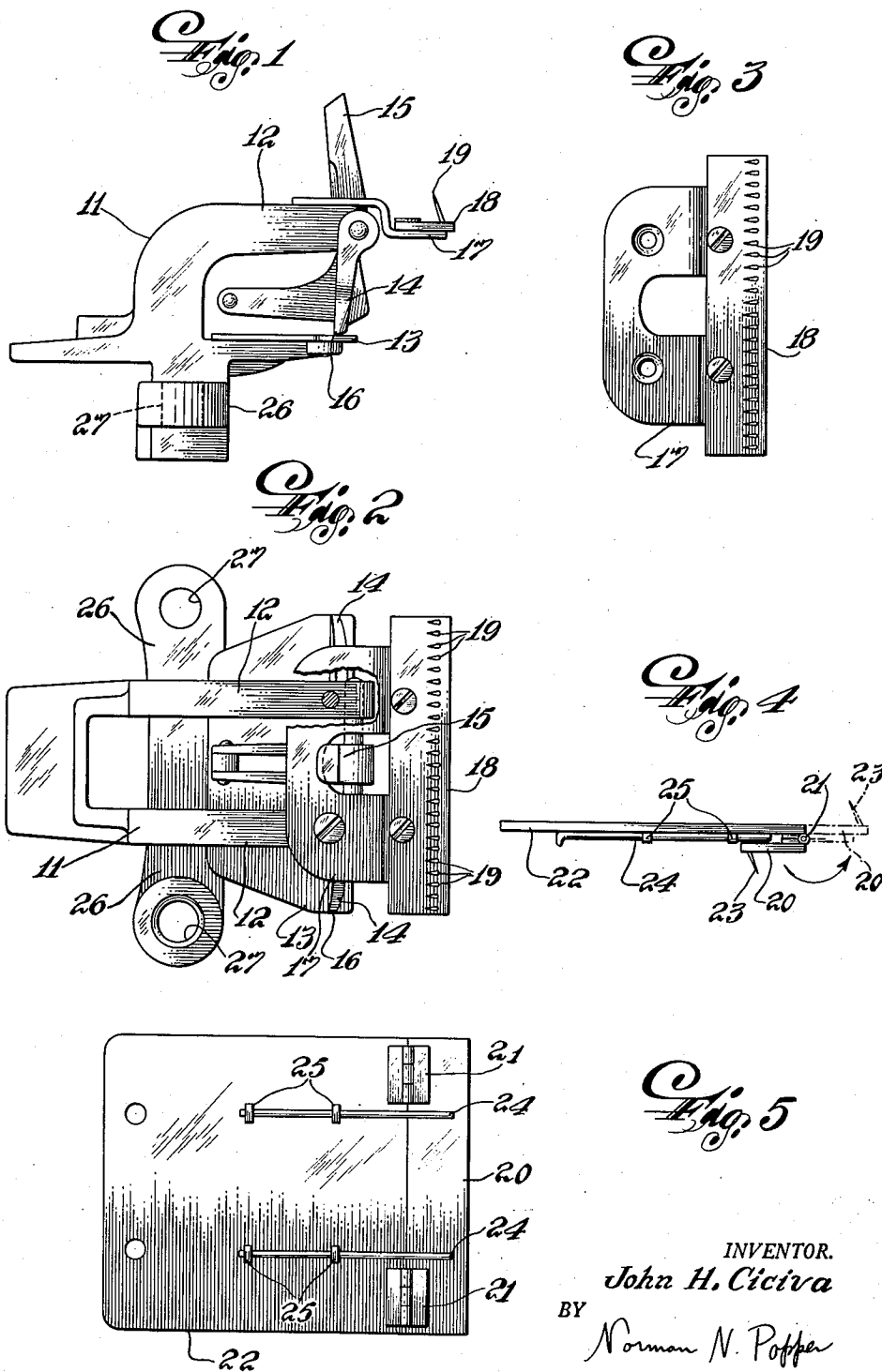
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CLAMP AND PIN TENTER CLIP

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CLAMP AND PIN TENTER CLIP

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2 Claims. (Cl. 26—62)

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My invention relates generally to tenter clips and specifically to tenter clips having both a clamp and pins for holding fabrics.

It is among the objects of my invention to provide a tenter clip that will operate properly in a tenter frame with either woven or knitted fabrics.

It is yet a further object of my invention to provide a tenter clip which will positively hold either knitted or woven fabrics, so that they may be stretched to the proper size.

It is another object of my invention to eliminate costly changeover of tenting machines from the pin type to the clip type, or vice versa.

Still another object of my invention is to permit rapid and precise transport of fabrics of all kinds and varieties through a tenting machine, whereby they may be precisely sized.

Still a further object of my invention is to provide a tenter clip that will make all tenting machines universal in their application to fabrics, without the substitution of specially constructed clips usually attendant upon the operation with each differing type of fabric.

And still another object of my invention is to provide an accessory tenter clip of the pin type that may be attached to a clamp type tenter clip.

Among the other objects of my invention is to provide a tenter clip that is simple in form, relatively inexpensive, durable and easy to use and attach.

These objects and advantages, as well as many other objects and advantages, may be attained from the device illustrated in the drawings, in which:

Figure 1 is a vertical side elevation of a tenter clip showing my invention;

Figure 2 is a top plan view of my tenter clip;

Figure 3 is a top plan view of my tenter clip's pin rack;

Figure 4 is a side elevational view showing a modified form of pin rack attached to a plate of a tenter clip; and

Figure 5 is a bottom view of the modified form of pin rack attached to the plate of the tenter clip.

Referring now to the drawings in detail, my combined clamp-and-pin tenter-clip presents a body member 11. The body member has a pair of arms 12 extending upward over a plate 13 which is attached to the body member 11. The plate 13 may be formed integral with the body member 11, or separate and attached by welding, soldering, or other suitable means. A clamp

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14 is pivoted to the arms 12. The clamp 14 has a release arm 15 extending upward beyond the point of pivotal attachment to the arms 12. The clamp 14 is heavy enough so that it will gravitationally bear on the plate 13. The clamp 14 has a contact edge 16 on the lower part thereof which is disposed parallel to the plate 13 and bears thereon. The arms 12, have attached thereto, a support 17. The support 17 carries a pin rack 18. This rack 18 has embedded in it, a number of pins 19 which are slanted back toward the body member 11.

In operation, my combination clamp-and-pin tenter-clip is arranged in the tenting frame on the conventional endless conveyor track that moves through a heated chamber opposite a similar conveyor track. My clip is, at all times, ready to receive a fabric, regardless of its character. There is no need to dismantle the conveyor to substitute a clamp-type tenter-clip for a pin-type tenter-clip, an operation that may mean hours of idle machinery. Nor is the reverse change-over necessary. Nor is the extravagant expedient of having two tenting machines, one for each type of fabric, necessary. The clamp is always available to be used with woven materials. The pin clip is always available for use with knitted materials. The point of introduction of the fabric is merely changed from the level of the plate 14 to the level of the pins 19.

Figures 1, 2, and 3 show a rack 18 which may be attached to the body member 11. This rack 18 may also be formed unitary with the arms 12 merely by extending them.

Another way to form a rack is to provide a rack 20 which may be attached by hinges 21 to the plate 22, as shown in Figures 4 and 5. Like the plate 13, the plate 22 may be formed integral with the body member 11 or separate and attached by welding, soldering, or other suitable means. This rack 20 would normally be disposed in the position shown in Figure 4 with the pins 23 disposed in a downward direction. When it is desired to engage a fabric with the pins 23 rather than a clamp bearing on the plate 22, the rack is pivoted upward in the direction of the arrows shown in figure 4 to the position indicated by dotted lines. Then the supports 24 are advanced in the guides 25 and the rack 20 is thereby brought into play.

At the bottom of the body member 11, and on both sides thereof, extended portions 26 are formed with holes 27 formed therein. By means of these holes, the tenter clip is attached to the endless conveyor track of the tenting machine.

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It may be seen that changes such as these, as well as many other changes, may be made in the construction, selection, and arrangement of the various parts, all within the scope of the present claims, without departing from the spirit of my invention.

I claim:

1. A tenter-clip comprising a body member, a fabric supporting plate attached thereto, a clamp pivotally attached to the body member above the plate and gravitationally bearing thereon, a rack positioned on the body member above and parallel to the plane of the plate, and a plurality of pins extending upwardly from the rack.

2. A tenter-clip comprising a body member, a fabric supporting plate attached to the lower part thereof, a clamp pivotally attached to the upper part of the body member and cooperatively engageable with the plate, a support attached to

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the upper part of the body member, a rack positioned thereon and extending parallel to the plane of the plate, and a plurality of pins extending upwardly from the rack.

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