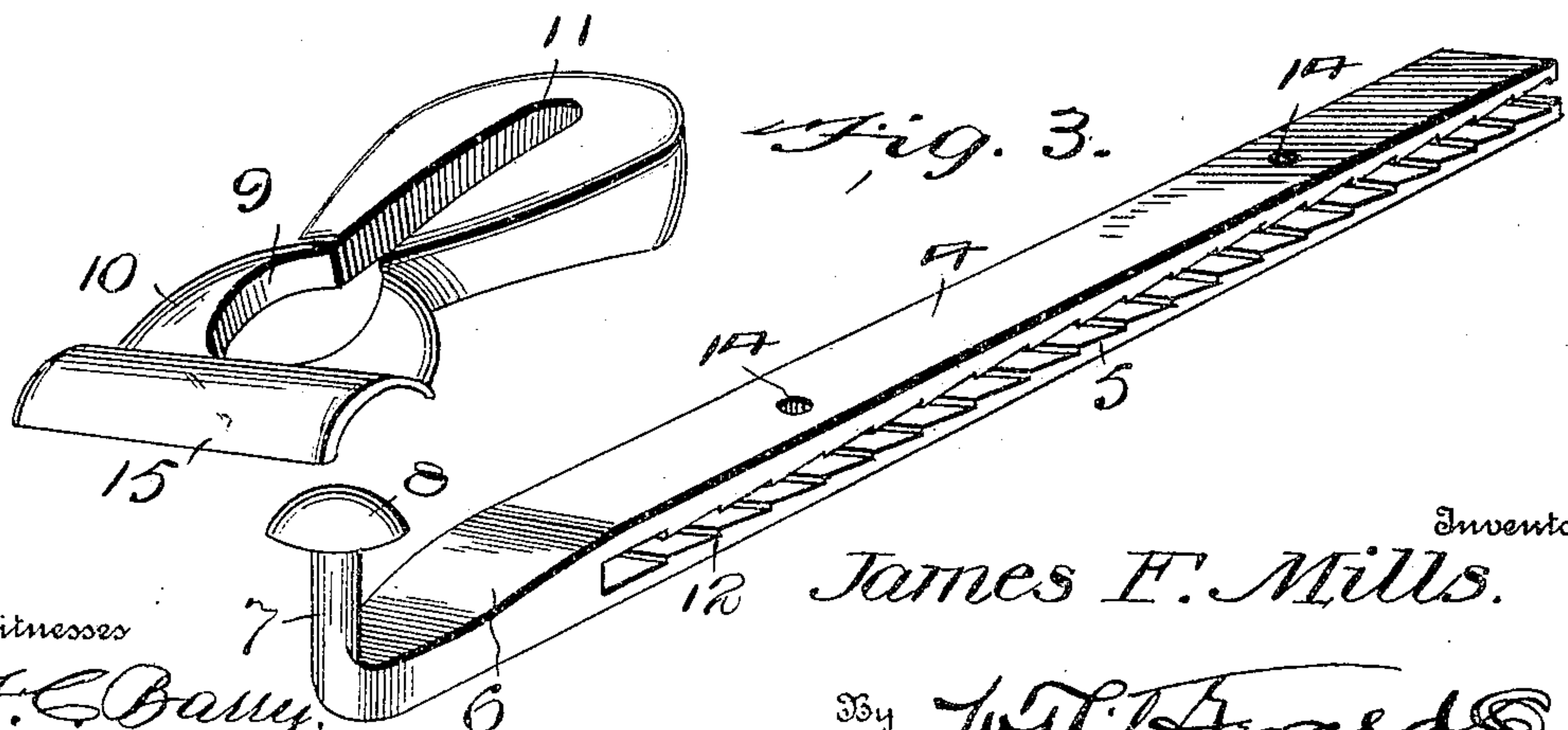
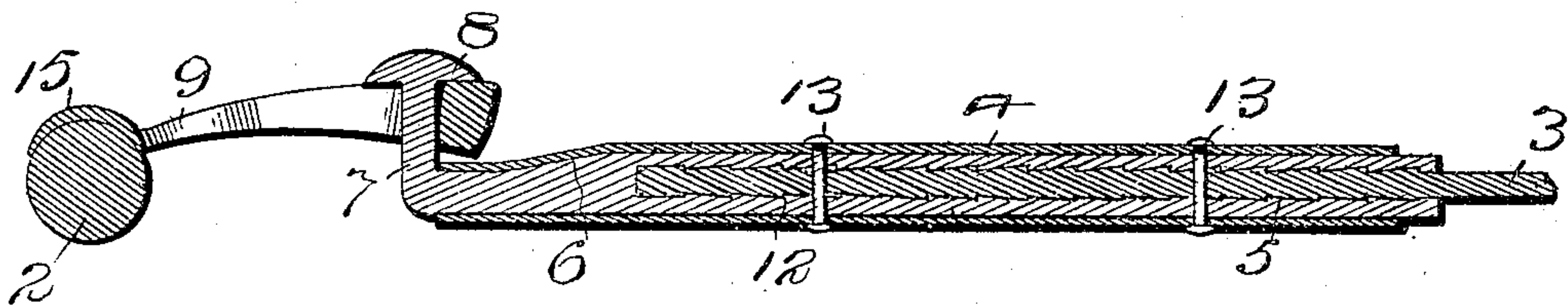
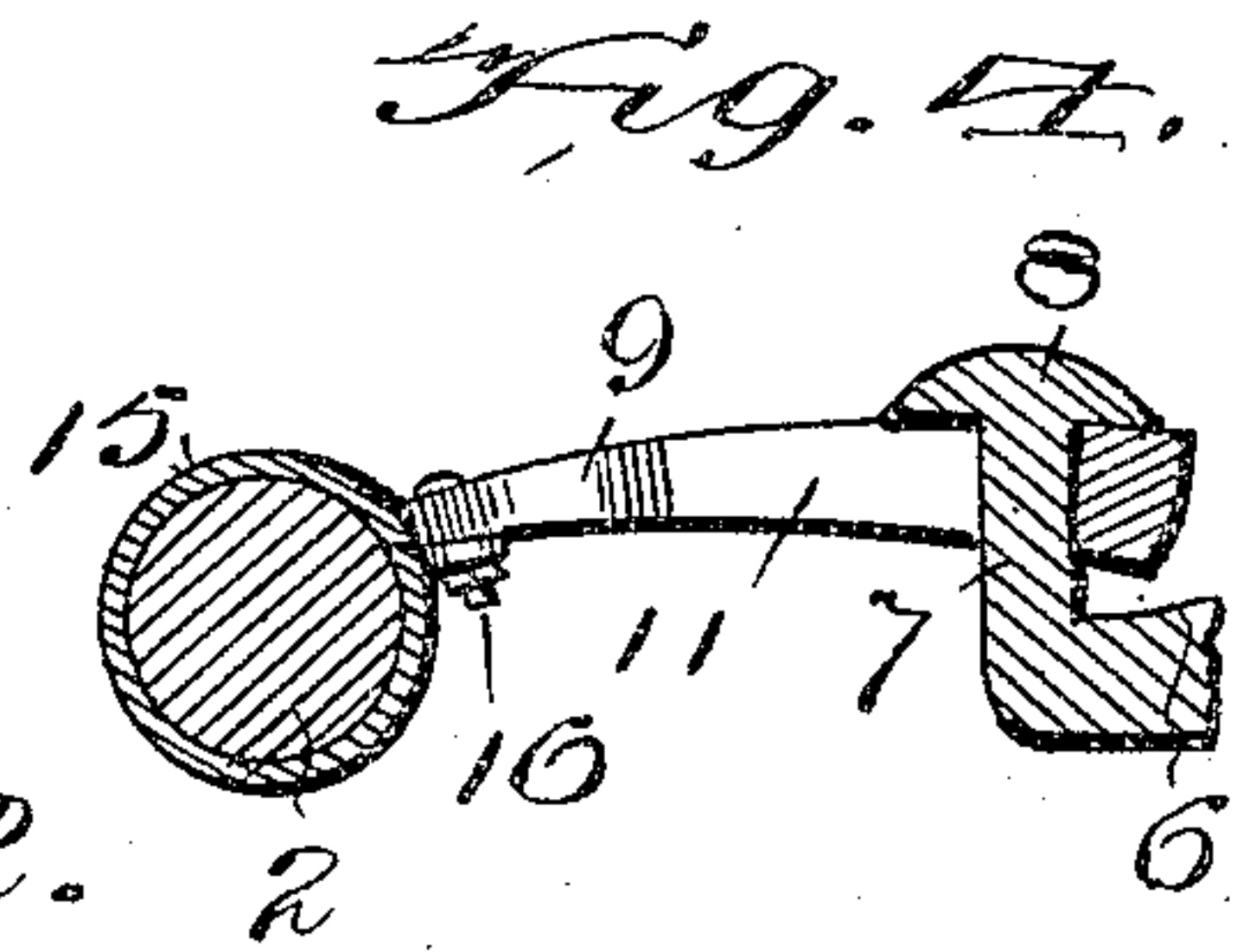
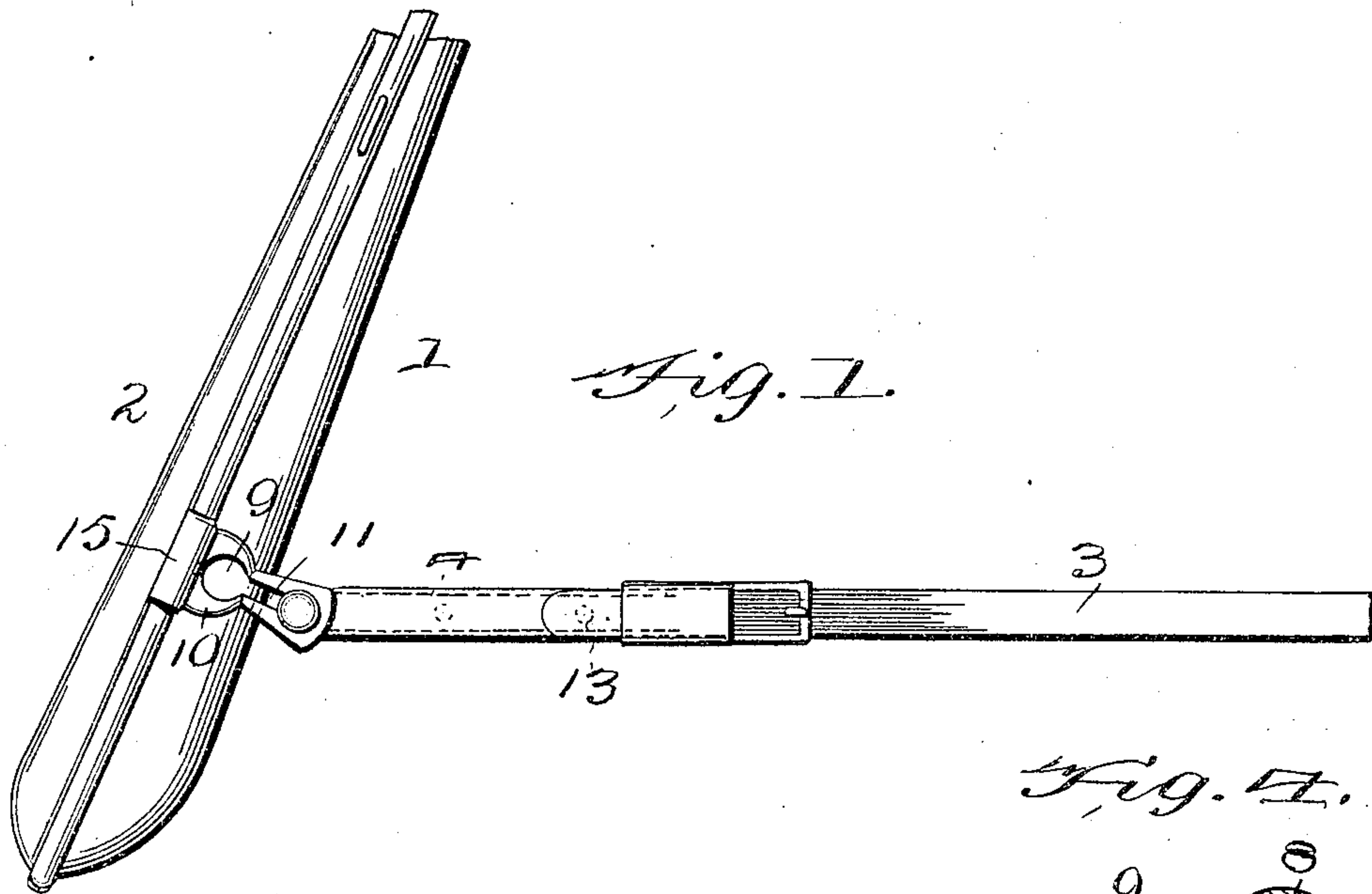


No. 795,447.

PATENTED JULY 25, 1905.

J. F. MILLS.
HAME TUG ATTACHMENT.
APPLICATION FILED MAY 20, 1904.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES FRANKLIN MILLS, OF MOUNT VERNON, GEORGIA.

HAME-TUG ATTACHMENT.

No. 795,447.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed May 20, 1904. Serial No. 208,868.

To all whom it may concern:

Be it known that I, JAMES FRANKLIN MILLS, a citizen of the United States, residing at Mount Vernon, in the county of Montgomery and State of Georgia, have invented certain new and useful Improvements in Hame-Tug Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to hame-tug attachments or connecting devices for securing the forward end of the tugs to the hames of harness; and it consists of certain novel features of combination and construction of parts, the preferred form whereof will be hereinafter fully set forth, and pointed out in the claim.

The main object of my invention, among others, is to provide a simple though reliably efficient connecting appliance whereby the tug may be readily secured to the hame and easily removed from engagement therewith as desired.

Other objects and advantages will be hereinafter made clearly apparent, reference being had to the accompanying drawings, which are made a part of this application, and in which—

Figure 1 shows my invention complete as applied to use. Fig. 2 is a longitudinal central section of my hame-tug attachment. Fig. 3 shows a perspective view of parts of my invention separated from each other and from the hame and tug, and Fig. 4 is a detail sectional view of a slightly-modified means of securing the tug attachments to the hame.

For convenience of reference to the various parts of my invention and cooperating accessories numerals will be employed, the same numeral-applying to a similar part throughout the several views.

Referring to the numerals on the drawings, 1 designates the collar of the usual or any preferred construction, while 2 indicates one of the hames of the harness, and 3 shows the harness-tug. The forward end of the tug is inserted between the branches 4 and 5 of my tug-terminal member 6, said member having upon its forward end the right-angled extension 7, provided with a head 8, as clearly shown in Figs. 2 and 3. The head 8 is of proper size to fit loosely in the opening 9, provided in the member or clip 10, and in order to accommodate the stem or extension 7 I provide the slot 11, extending from the rear

side of the opening 9, and it is therefore obvious that when the head or member 8 is passed through the aperture 9 the stem 7 will be received by said recess and prevented from casually slipping out until it is moved forward to the front end of the slot so that the head 8 will again be received by the opening 9, as will be obvious.

In order to more readily secure the end of the tug 3 between the branches 4 and 5, I prefer to provide a plurality of ratchets or teeth 12, each tooth being so formed as to permit the end of the tug to be readily inserted between the members 4 and 5, but will prevent a withdrawal thereof after it has once been located in proper position, suitable rivets 13 being passed through the openings 14 to provide additional means for holding the tug in position.

The forward end of the member 10 is shaped in the form of a curved lip-like member 15, which latter is intended to be welded directly to the hame 2 at a proper point, or said lip may extend entirely around the hame at this point, if preferred, and as shown in Fig. 4.

In Fig. 4 it will be seen that the lip 15 is of sufficient length to wrap entirely around the hame 2 and the edge thereof bent in engagement with the body portion 10, where it is to be secured in place by a rivet or screw 16. If this construction is adopted, it will render the clip or member 10 easily adjustable relative to the longitudinal extent of the hame, thus making it possible to properly distribute the strain or load placed upon the collar of the animal so that it will come at the desired point.

It is thought that by properly shaping the members or teeth 12 the end of the tug will be reliably held in place between the members 4 and 5.

The various parts of my invention may be very cheaply and expeditiously manufactured and each assembled in its respective operative position, and while I have described the preferred combination and construction of parts deemed necessary in materializing my invention I desire to comprehend in this application all substantial equivalents and substitutes.

As seen clearly in Figs. 2 and 3, the body portion 10 is tapered or wedge-shaped in cross-section, so that the head 8 of the right-angled extension 9, together with the increased thickness of the said body portion, will serve as a cam to draw the parts together

as the right-angled extension approaches the true end of the slot 11.

Believing that the advantages, construction, and manner of using my improved hame-tug attachment have thus been made clearly apparent, further description is deemed unnecessary.

What I claim as new, and desire to secure by Letters Patent, is—

The herein-described hame-tug attachment comprising the combination with the hame and tug, of a member having right-angled extension 7 and head and means for engaging the end of the tug and a cooperating member 10 having at its forward end an integral

curved portion 15 conforming to the hame and closely embracing the same and having also an opening of proper size to loosely receive said head 8 and with a slot 11 of less width to receive said extension, 7 the body portion of the member 10 being tapered substantially as and for the purpose specified.

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

JAMES FRANKLIN MILLS.

Witnesses:

W. A. McNATT,

T. B. DENMARK.