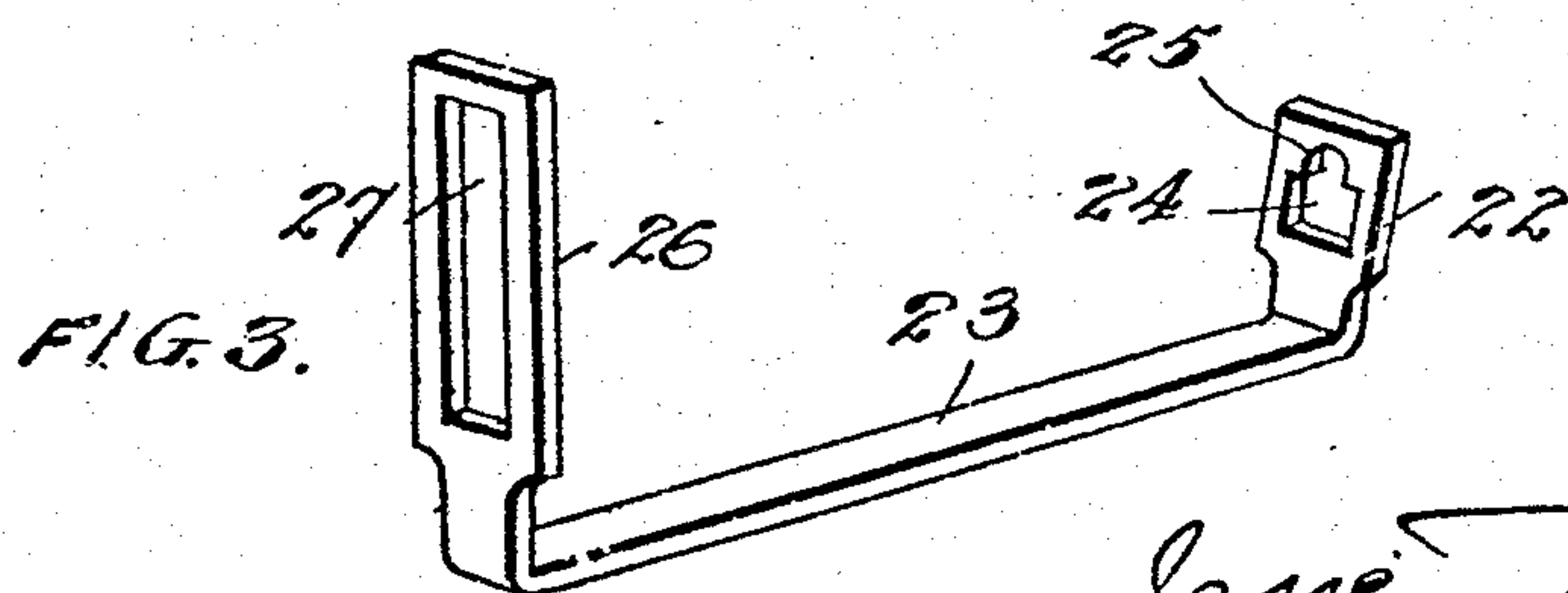
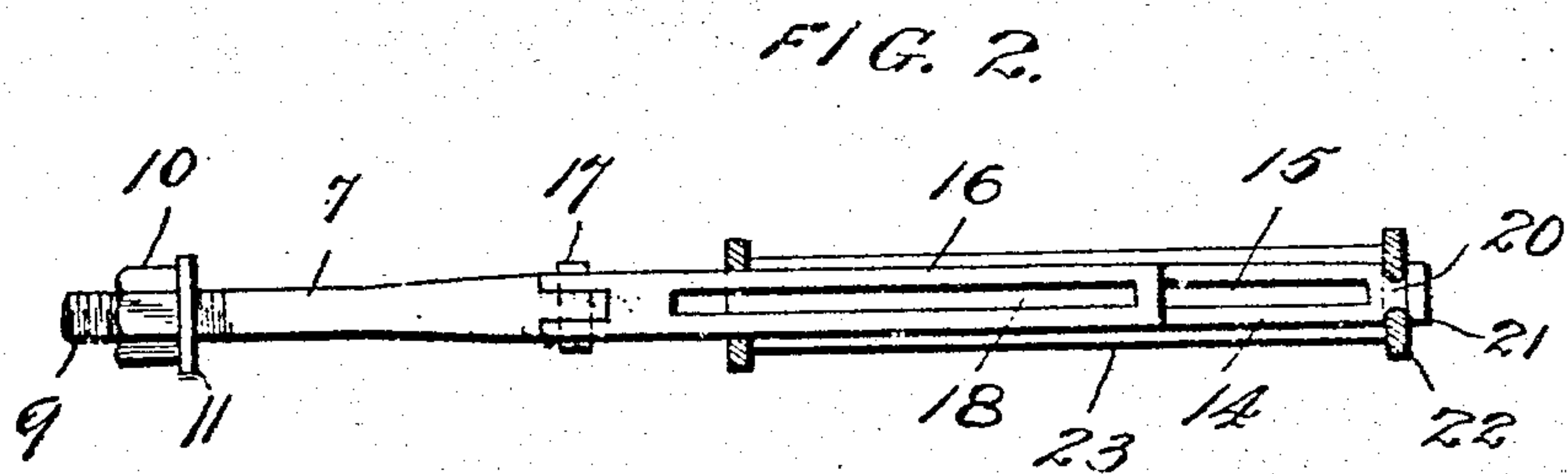
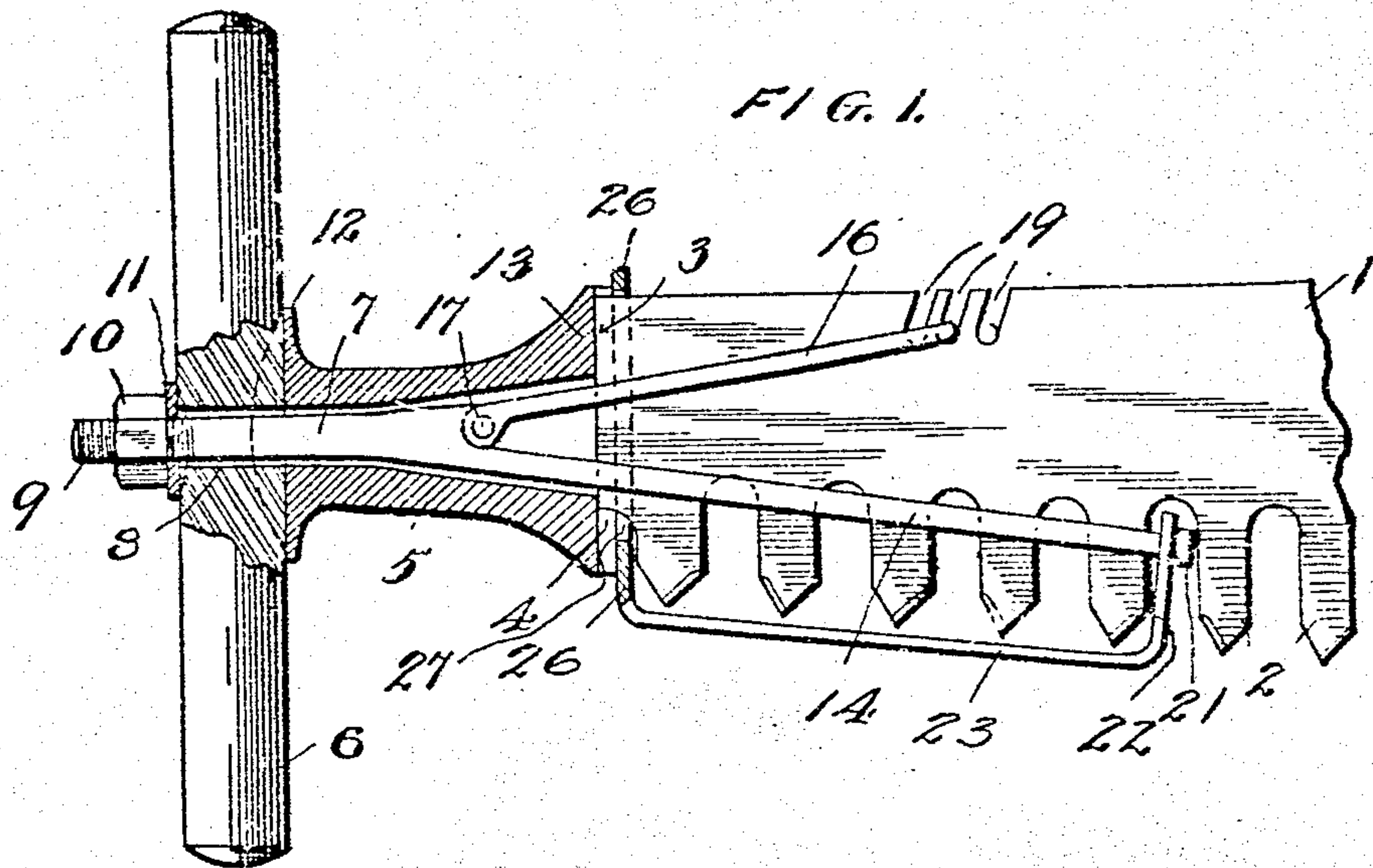


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SAW HANDLE.
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991,746.

Patented May 9, 1911.



WITNESSES
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JESSE RANKIN, OF RAINIER, WASHINGTON.

SAW-HANDLE.

991,746.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JESSE RANKIN, a citizen of the United States, residing at Rainier, in the county of Thurston and State of Washington, have invented certain new and useful Improvements in Saw-Handles, of which the following is a specification.

My invention relates to improvements in saw-handles and is particularly designed for use with cross-cut saws.

The prime object of the invention is to provide a cross-cut saw handle which embodies devices for bracing and holding the saw handle and blade, and also a guard for a portion of the saw and its teeth. By means of the particular form of braces I am also enabled to raise or lower the handle with relation to the saw.

The invention consists essentially in the combination and arrangement of parts, and novel features thereof, as fully set forth in the following specification, illustrated in the drawings, and more particularly described in the appended claims.

In the accompanying drawings I have illustrated one example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and while I have shown an exemplifying structure embodying a cross-cut saw, it will of course be understood that the device may be used in connection with other types of saw if desired.

Figure 1 is a view in elevation of a portion of a saw, with the novel features of my invention applied thereto, parts being shown in section. Fig. 2 is a top plan view of the brace, and showing the guard in section, and Fig. 3 is a perspective view of the saw guard, detached.

In the drawings the numeral 1 designates a cross cut saw of usual type provided with spaced teeth 2, and with the squared end 3. The end 3 of the saw is held in the slot 4 of the hollow spool 5, and the spool 5 is held to the handle 6 by means of the threaded bar or shank 7 which extends through the orifice 8 in the handle, is threaded at 9, and provided with the nut 10, which seats against the washer 11, between said nut and the handle bar. The spool is provided with enlarged heads 12 and 13, the former engaging and conforming to the shape of the handle bar, and the latter provided with the kerf or vertical slot 4.

As clearly seen in the drawing, the brace for the saw is composed of two diverging arms, the lower arm 14 being an extension of the shank 7, and slotted at 15 and the upper arm 16 being hinged or pivoted at 17 to the shank, and formed with a slot 18. These slotted arms are adapted to straddle or span the upper edge of the saw, and the end teeth.

The outer or free end of the arm 16 is anchored in one of a series of inclined slots 19 extending from the upper edge of the saw blade. The free end of the lower arm 14 is formed with a neck 20 and head 21 upon which is suspended the outer arm 22 of the yoke 23.

The arm 22 of the yoke 23 is formed with an opening comprising the enlarged portion 24 adapted to pass over the head 21 of the arm 14, and a restricted opening 25 adapted to seat upon the neck 20 of said arm 14. The opposite end of the yoke is provided with a second upright arm 26, slotted at 27 to fit over the edge or end 3 of the saw blade.

In assembling the saw handle and saw, the upper and lower brace arms of the shank, with the yoke guard thereon, are anchored to the saw blade in their respective manners, with the end 3 of the blade projecting through the slot 27 of arm 26. The shank is then passed through the hollow spool and the end of the saw blade seated in the slot 4 of the spool. The handle bar is then passed over the end of the shank, and the nut screwed home against the washer 11.

By means of the nut 10 all the parts are drawn compactly together and by means of the brace arms a rigid connection of the parts is accomplished. It will be understood that the yoke guard is somewhat elastic, and because of this fact, in addition to forming a guard, it also performs the function of a brace arm, as it is held tightly between the head of the spool, and the head of the lower brace arm and a saw tooth.

To raise or lower the saw with relation to the handle, or vice versa, the upper brace arm may be engaged in a different notch or slot in the saw, as will be understood.

Having thus fully described my invention, it will be apparent that I have provided a saw handle which fulfils the purposes set forth as the object of my invention.

Claims.

1. The combination with a saw blade and

handle bar, of a spool held therebetween, a shank passed through said spool and bar, a brace arm extending from said shank and engaging the teeth of the saw, and a second
5 brace arm hinged to the shank and its outer or free end anchored to the top edge of the saw blade.

2. The combination with a saw blade and handle bar, of a spool, a shank passed
10 through said spool and bar, a clamping nut on the threaded end of the shank, and diverging arms extending from said shank, slotted to pass over the top edge of the saw and teeth respectively, and means for an-
15 choring the ends of said arms.

3. The combination with a saw blade and handle bar, of a spool slotted to receive the end of the blade, a shank passed through
said spool and bar, a nut threaded upon the
20 end of the shank, a lower extension on the

shank slotted to pass over and engage the saw teeth, and an upper arm hinged to the shank and slotted to engage the saw blade.

4. The combination with a saw blade and handle bar, of a spool, a shank passed
25 through said spool and bar, brace arms diverging from said shank and engaging the saw teeth and saw blade respectively, and a guard adjacent the end teeth of the saw formed with a slotted arm to fit over the end
30 of the saw and bear against the spool, and its free end attached to one of said brace arms.

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

JESSE ^{his} X RANKIN.
mark

Witnesses:

J. F. CANON

C. G. MORRIS.