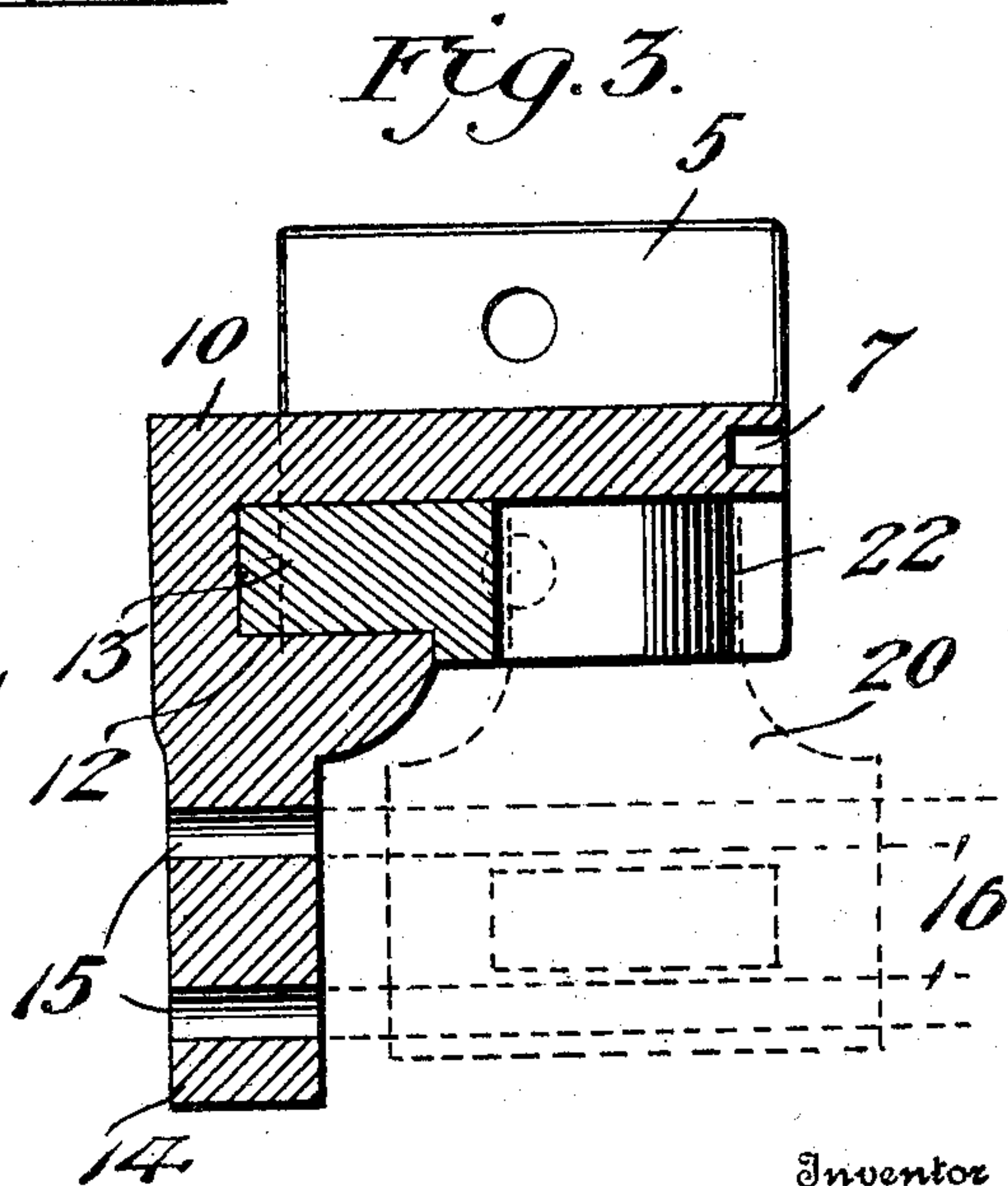
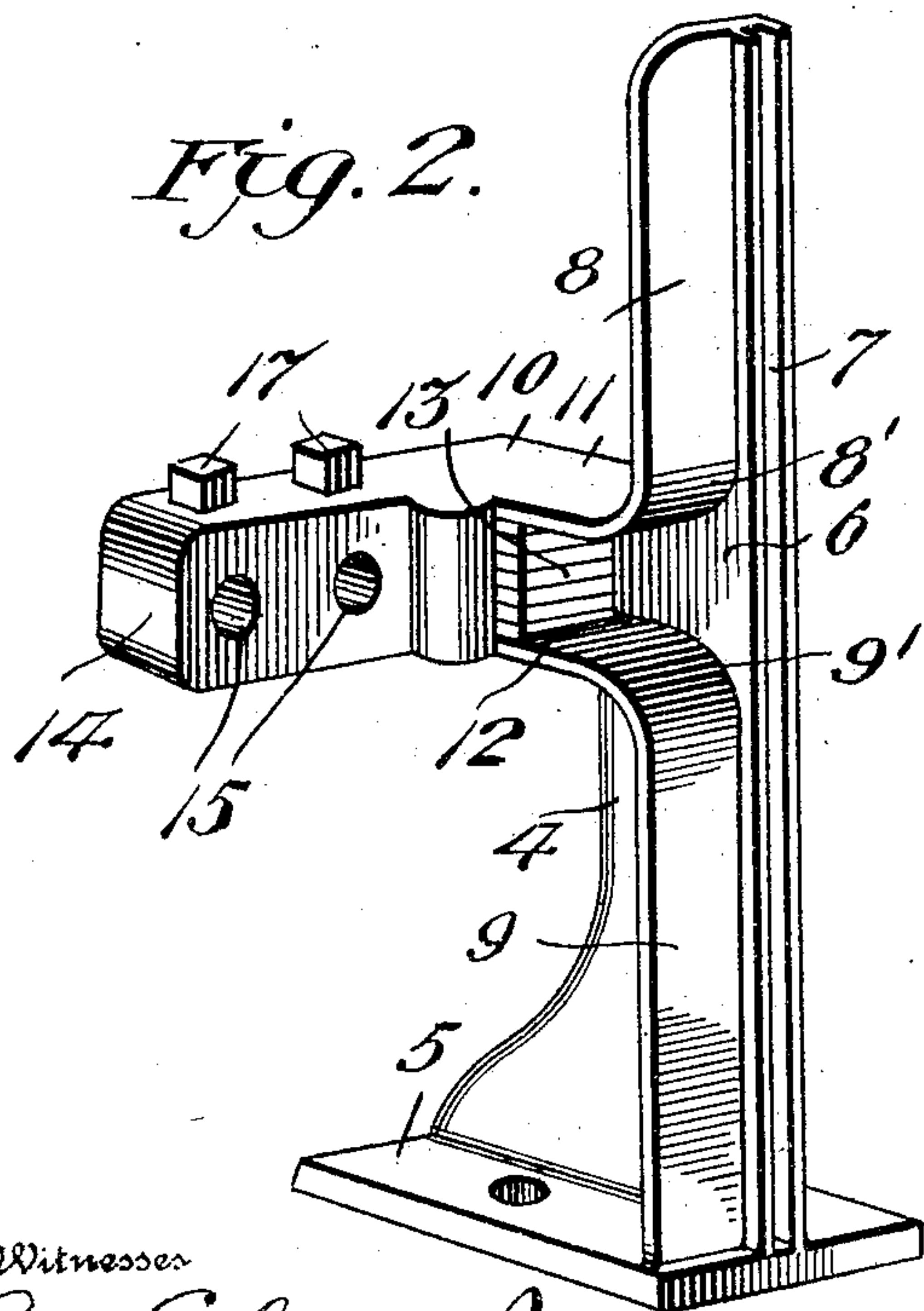
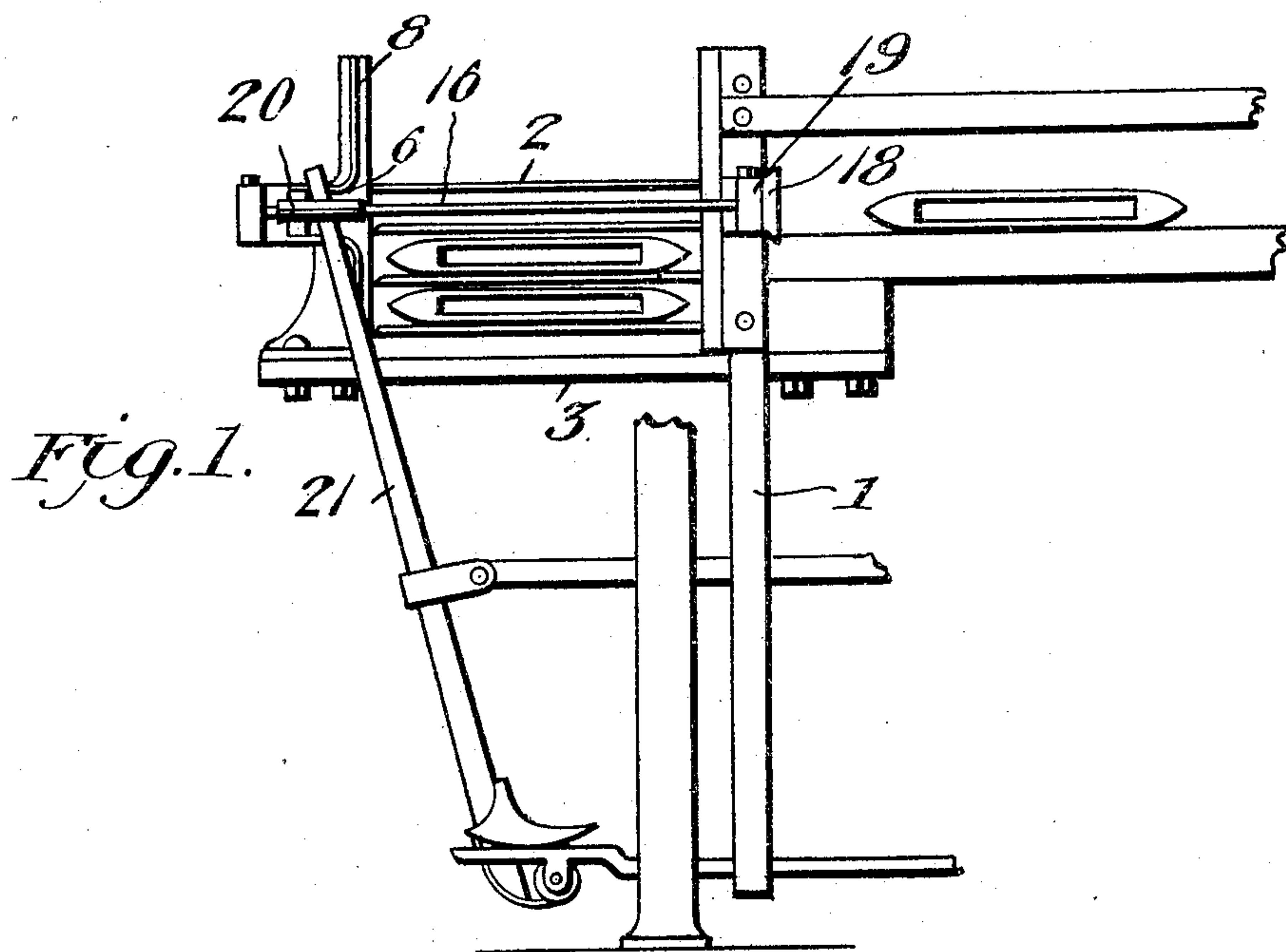


No. 796,373.

PATENTED AUG. 1, 1905.

J. M. VAN WERRY.
LOOM ATTACHMENT.
APPLICATION FILED FEB. 4, 1905.



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JOHN M. VAN WERRY, OF RANDLEMAN, NORTH CAROLINA.

LOOM ATTACHMENT.

No. 796,373.

Specification of Letters Patent.

Patented Aug. 1, 1905.

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To all whom it may concern:

Be it known that I, JOHN M. VAN WERRY, a citizen of the United States, residing at Randleman, in the county of Randolph and State of North Carolina, have invented new and useful Improvements in Attachments for Looms, of which the following is a specification.

This invention relates to a combined picker-stand, shuttle-box-guide stand, and buffer-supporter for looms of that type having shifting shuttle-boxes arranged to reciprocate vertically between the frame of the loom and stands or guide-supports at the ends of the frame.

The object of the invention is to provide a device of simple construction which will perform these several functions and obviate the necessity of employing the plurality of elements commonly employed and which is adapted for attachment to looms of the stated type already in use.

With this and other objects in view the invention consists of the features of construction, combination, and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation of a portion of one end of a loom, showing the application of the invention thereto. Fig. 2 is a detail perspective view of the combined picker-stand, shuttle-box-guide stand, and buffer holder or supporter; and Fig. 3 is a horizontal section through the stand on the line of the picker-guide rods or spindles, the rods and picker appearing in dotted lines, the picker being shown in the position it occupies when brought into engagement with the buffer.

The numeral 1 denotes a portion of the frame of a loom of the described type, and 2 the shuttle-box, which is arranged to reciprocate vertically between the end of the loom-frame and my improved stand, hereinafter described. Projecting from the loom-frame below the box 2 is a beam 3, upon the outer end of which my improved attachment is supported. The combination picker-stand, shuttle-box-guide stand, and buffer holder or support comprises an upright 4, made of metal, wood, or a composite structure, as desired, and provided at its base with a foot-piece 5, pierced for the passage of bolts or other suitable fastenings to secure it firmly to the beam 3. The body portion 6 of the upright is formed on its inner face with a grooved guideway 7, said guideway being located on the outer side of its vertical center and adapted to receive the

outer edge of the wall of the box 2, which slides vertically therein. Projecting forwardly and laterally from the body portion 6 are upper and lower flanges 8 and 9, which form guides for the outer ends of the shuttles disposed in the box 2, and thereby prevent outward displacement of said shuttles. Projecting rearwardly from the body portion 6 is a hollow extension 10, formed by spaced upper and lower walls 11 and 12, connected and closed on one side by the body portion 6 and open at the opposite or forward side. The walls 11 and 12 constitute continuations of the flanges 8 and 9, which are curved rearwardly at their adjacent ends, as indicated, respectively, at 8' and 9', to form a flaring entrance to the hollow extension 10, which forms a chamber or receptacle to receive a buffer 13. The buffer 13 may consist of strips of leather or of cotton-waste or other material which may be packed within said chamber to cushion the outstroke of the picker and which may be readily renewed at a minimum of expense when occasion requires.

Projecting forwardly from the extension 10 is an arm 14, which lies at right angles to said extension and in a plane outwardly beyond and parallel with the flanges 8 and 9. This arm is provided with openings 15 to receive the outer ends of the picker-guide rods or spindles 16, which are clamped therein by means of set-screws 17, thus supporting the rods or spindles firmly in position at their outer ends. The inner ends of the rods or spindles similarly fit in openings in the usual manner in the shuttle-box mouthpiece 18 and are clamped therein by set-screws 19. The picker 20 slides horizontally on the rod 16 and is actuated by the picker-stick 21, which may be operated by any known type of actuating mechanism. As shown in the present instance, the picker is provided with a laterally-projecting head 22, (shown in dotted lines in Fig. 3,) which when the picker reaches the limit of its outward stroke enters the buffer-chamber 10 and contacts with the buffering material 13, whereby the stroke of the picker is cushioned and the picker brought to a state of rest without undue jar.

From the foregoing description, taken in connection with the accompanying drawings, the construction and mode of operation of my invention will be readily understood, and it will be seen that it provides a combination-stand which serves the triple function of guiding the outer end of the shuttle-box, guiding

the shuttles and holding them from outward displacement, and supporting the buffer. By its use the necessity of employing a multiplicity of parts for performing these several operations is obviated and the cost of construction and maintaining the parts in working order reduced to the minimum.

The device is of such a structure that it may be attached to a variety of looms operating on the aforesaid principle without changing or modifying the construction thereof.

Having thus described the invention, what is claimed as new is—

1. The combination with a loom-frame having a guide for the inner end of a shuttle-box, and a picker, of a stand supported from the frame and having a guide for the outer end of the shuttle-box, guiding and retaining means for the outer ends of the shuttles carried thereby, and a buffer-holder in the plane of movement of the picker.

2. An attachment for looms, comprising a stand having a guideway for the outer end of the shuttle-box, guiding and retaining means for the outer ends of the shuttles, and a buffer-holder arranged outwardly beyond said guiding and retaining means to cushion the outstroke of the picker.

3. An attachment for looms, comprising an upright having a guide for the outer end of a shuttle-box, shuttle-guide flanges adjacent to said guide, said flanges being spaced at their contiguous ends, and a hollow extension forming a chamber in rear of said flanges for holding buffing material, said chamber having its entrance between the adjacent ends of the flanges, said entrance being open at one side.

4. The combination with a loom-frame having a guide for the inner end of a shuttle-box, a picker, guide-spindles for the picker, and means for supporting the inner ends of said spindles, of a stand supported from the frame and having a guide for the outer end of the

shuttle-box, guiding and retaining means for the outer ends of the shuttles carried thereby, means for supporting the outer ends of the shuttle-spindles, and a buffer-holder, substantially as described.

5. An attachment for looms comprising an upright provided with a shuttle-box guideway, shuttle-guide flanges spaced at their adjacent ends, and a chamber for the reception of buffing material having its entrance between the adjacent ends of the flanges.

6. An attachment for looms comprising an upright having a shuttle-box guideway, vertical flanges on one side of said guideway, said flanges being spaced adjacent their meeting ends, and an extension in rear of the flanges forming a receptacle for buffing material, said receptacle having an entrance between the said adjacent ends of the flanges.

7. An attachment for looms comprising an upright having a shuttle-box guideway, vertical flanges at one side of said guideway, said flanges being spaced at their meeting ends, a hollow extension forming a receiver for buffing material having its entrance between the adjacent ends of the flanges, and an arm projecting from said extension and adapted to support the outer ends of picker-spindles, substantially as described.

8. An attachment for looms comprising a stand having a shuttle-box guideway, shuttle-guide flanges adjacent to said guideway and spaced at their contiguous ends, and a box or chamber for holding buffing material disposed in rear of said flanges and having its entrance between the spaced ends of the same.

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

JOHN M. VAN WERRY.

Witnesses:

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