

No. 891,107.

PATENTED JUNE 16, 1908.

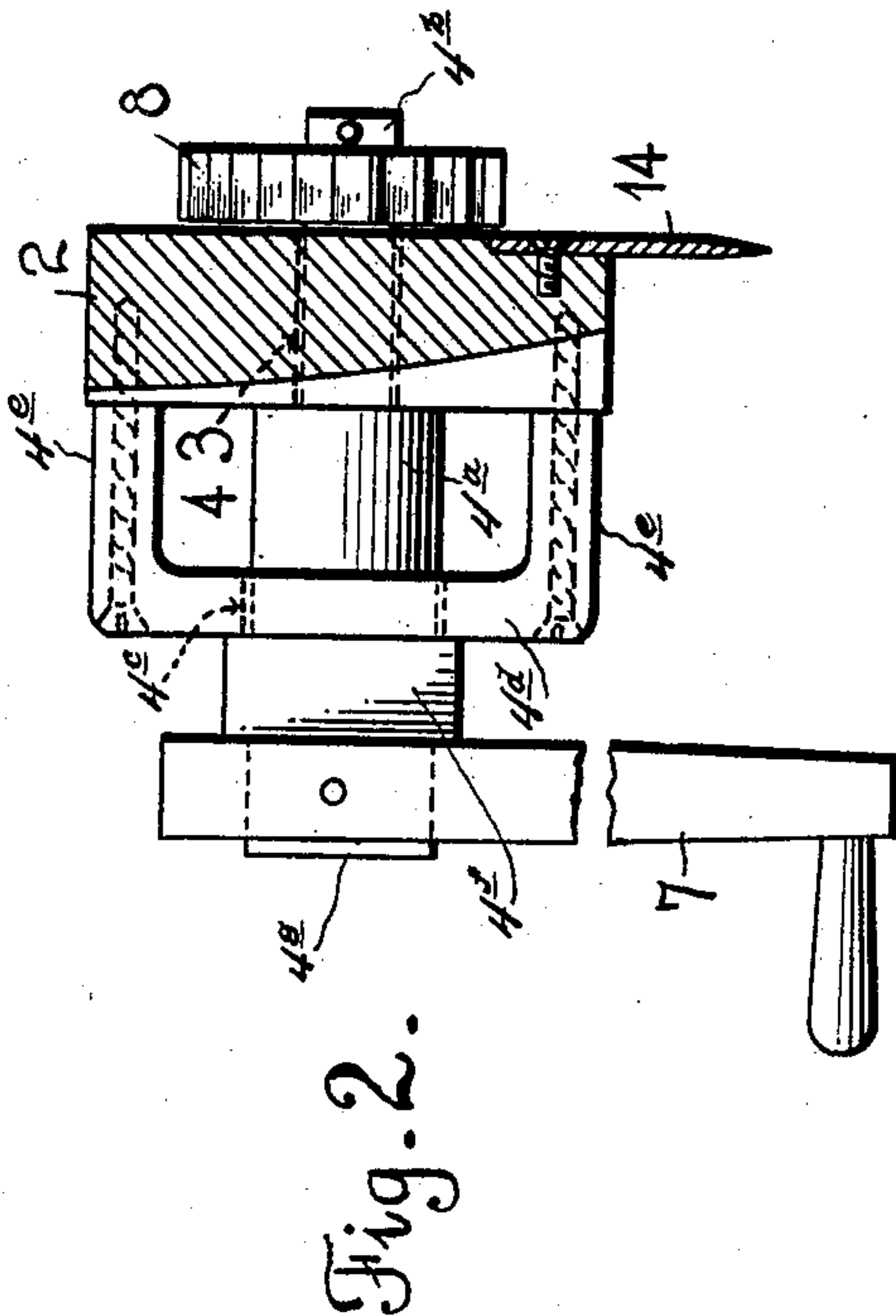
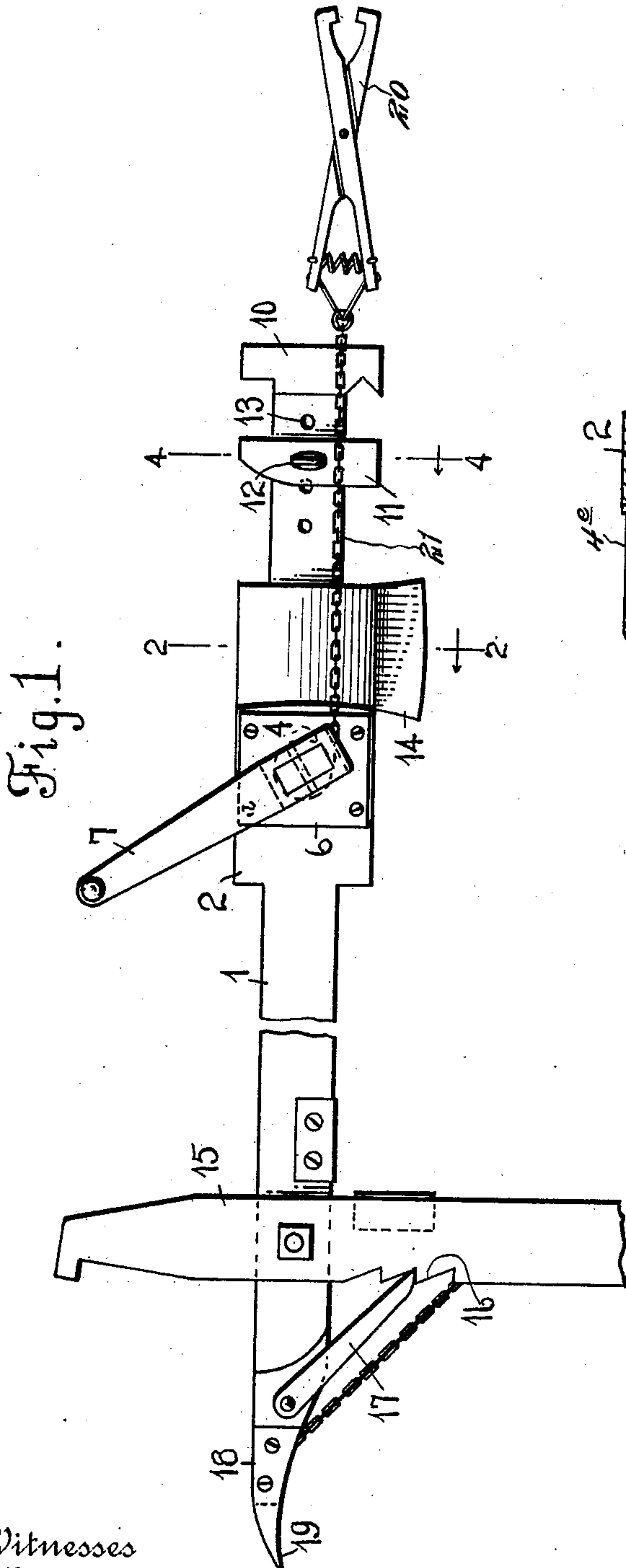
J. P. SHAW, DEC'D.

R. E. HOUSTON, ADMINISTRATOR.

COMBINATION TOOL.

APPLICATION FILED OCT. 31, 1907.

2 SHEETS—SHEET 1.



Witnesses

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Fig. 3.

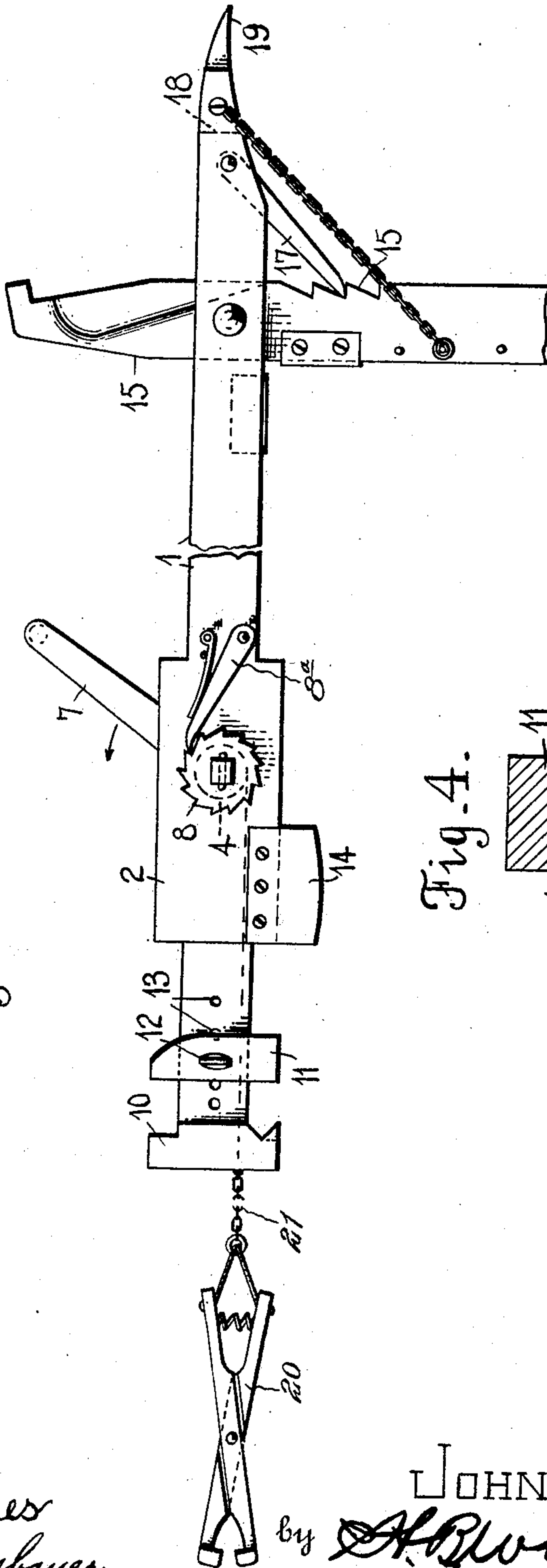
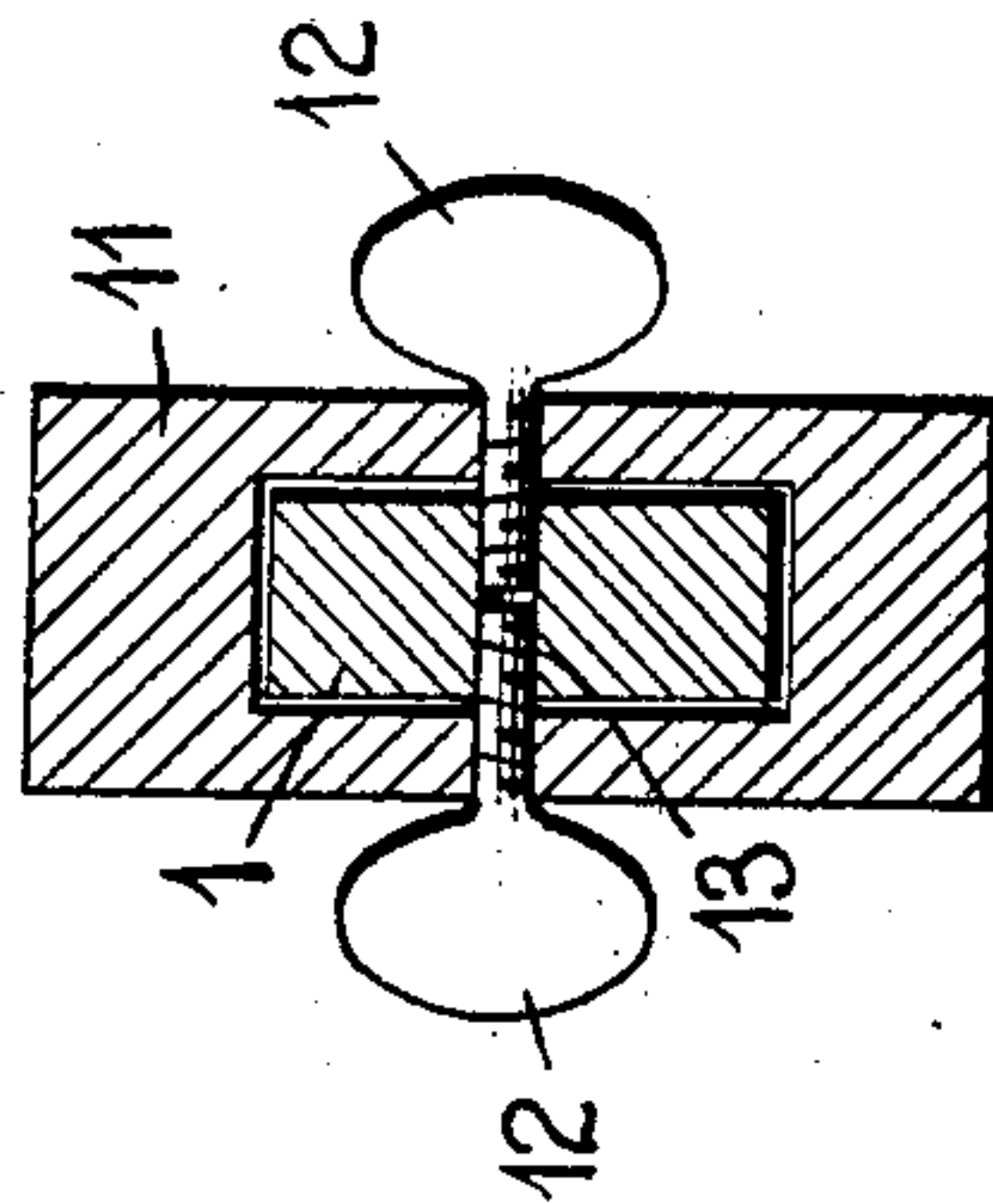


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN P. SHAW, OF ABERDEEN, MISSISSIPPI; ROBERT E. HOUSTON ADMINISTRATOR OF SAID SHAW, DECEASED.

COMBINATION-TOOL.

No. 891,107.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed October 31, 1907. Serial No. 400,061.

To all whom it may concern:

Be it known that I, JOHN P. SHAW, a citizen of the United States, residing at Aberdeen, in the county of Monroe and State of Mississippi, have invented certain new and useful Improvements in Combination-Tools; and I do 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.

This invention has relation to new and useful improvements in combination tools, and has for its object to provide an inexpensive and compact tool comprising a wire stretcher, wrench, jack, wire clipper or cutter, rule, staple puller and hatchet.

With the foregoing and other objects in view, that will readily appear as the nature of the invention is better understood, the invention consists of certain novel features of construction, combination and arrangement of parts, illustrated in the drawings and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a view in side elevation of a tool constructed in accordance with the invention. Fig. 2 is a cross-sectional view cut on the line 2—2 of Fig. 1. Fig. 3 is a view in side elevation looking from the opposite side; and Fig. 4 is a cross-sectional view cut on the line 4—4 of Fig. 1 looking in the direction indicated by the arrows.

In the embodiment illustrated, the supporting bar or member 1 is provided near one end with a suitable enlargement 2 having a transverse aperture or opening 3 at a suitable point intermediately of its ends.

The numeral 4 indicates a suitable drum or windlass, which as shown, comprises a central cylindrical body portion 4^a, formed at one end with a reduced longitudinal portion or stem 4^b, designed to fit and extend through the opening 3 of the supporting bar, the adjacent end of the body portion working against the inner face of said bar and its other or opposite end extending through a corresponding aperture or opening 4^c, formed in the body portion 4^a, of an inverted U shaped drum supporting frame, the arms 4^e, of which are attached by fastening screws or other equivalent means to one face or side of the enlargement 2 of the supporting bar. Said last mentioned end of the body portion is formed with a flange or shoulder

4^f, designed to bear against the outer face of the body portion of the U shaped drum supporting frame to maintain the windlass against lateral displacement, said flange or shoulder being formed at its outer end with a reduced portion 4^g, for receiving one end of the suitable crank or handle 7 for turning the drum or windlass. A ratchet 8 is fixed to the outer projecting end of the reduced portion or stem 4^b, of the drum or windlass, and is adapted to be engaged by a pawl 8^a, pivoted to the adjacent side or flange of the supporting bar or member 1, the purpose of which will be apparent.

In practice, the wire to be stretched is wound on the cylindrical body portion 4^a, of the drum or windlass by turning the crank or handle 7, the inner face of the body portion of the U shaped drum supporting frame and adjacent side of the supporting bar constituting a guide for guiding the wire on such body portion.

The extreme end of the bar or member 1, adjacent the enlargement 2, terminates in a jaw 10, and slidably mounted between said jaw, and the adjacent end of the enlargement on said bar or member 1 is a second jaw 11. Said jaw 11 is provided preferably at either side with a set or adjusting screw 12, adapted to engage any one of a longitudinal series of transverse apertures 13 in the supporting bar or member 1, between the fixed jaw and adjacent end of the enlargement. Said jaws co-act with the supporting bar or member to provide a wrench.

A cutting blade or member 14 is attached in any suitable manner to the enlargement 2, preferably at the side thereof adjacent the ratchet 8, and serves in conjunction with said bar or member to provide a hatchet.

Pivotally connected near one end near the end of the supporting bar or member, opposite the enlargement thereof is a supporting leg or member 15 having a series of teeth 16, formed in one edge, adjacent its pivot point, adapted to be engaged by a dog or pawl 17, pivoted at a suitable point to the supporting bar or member.

In practice, the end of the supporting bar or member 1 may be placed under the axle of a vehicle or under any other object sought to be raised, and the opposite end of said bar used as a leverage in raising the object, during which operation the supporting leg or member 15 will serve to support the bar or

member 1. During this operation the dog or pawl 17 will engage with the teeth of the supporting leg or member 15 and prevent the object from accidentally slipping or falling.

5 A plate 18 is fastened to one side of the supporting bar or member, at the end thereof, adjacent the supporting leg or member 15, and is provided with an outer curved end 19 in the form of a horn, which projects beyond the adjacent end of the supporting bar. This plate may be employed for pulling staples or other similar devices, the bar or member 1 serving as a leverage.

15 The numeral 20 indicates a suitable wire cutter which is connected with the supporting bar or member 1 by a chain 21 or other equivalent means.

From the construction disclosed, it will be seen that the tool, while being of comparatively simple structure and compact form, 20 comprises a wire stretcher, wrench, hatchet, lifting jack, wire clipper or cutter, rule, and staple puller, and could therefore be very advantageously employed by farmers or mechanics. 25

Owing to the fact that the tool comprises a staple puller, wire clipper or cutter and wire stretcher it may be very advantageously employed in building a wire fence.

30 Having described the invention what I

claim as new, and desire to secure by Letters Patent is:

In a tool of the character specified, the combination with a supporting bar formed with a transverse aperture or opening, of a 35 laterally extending approximately U-shaped drum supporting frame detachably secured to one side of the supporting bar, with its arms spaced at right angles to the plane thereof, the body portion of said frame being 40 formed with an aperture to register with that of the supporting bar, fastening screws extending longitudinally through the arms of said frame into the supporting bar, said screws constituting detachable fastening 45 means for the frame, a drum extending through the apertures or openings of the supporting bar and drum supporting frame, a crank arranged at one end of the drum, a ratchet arranged at the opposite end of the 50 drum, and a pawl pivoted to the supporting bar in position to engage the teeth of the ratchet.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 55

JOHN P. SHAW.

Witnesses:

S. A. JONAS,
GEO. W. BREWER.