

(No Model.)

D. DUTT.
FLOORING JACK.

No. 597,671.

Patented Jan. 18, 1898.

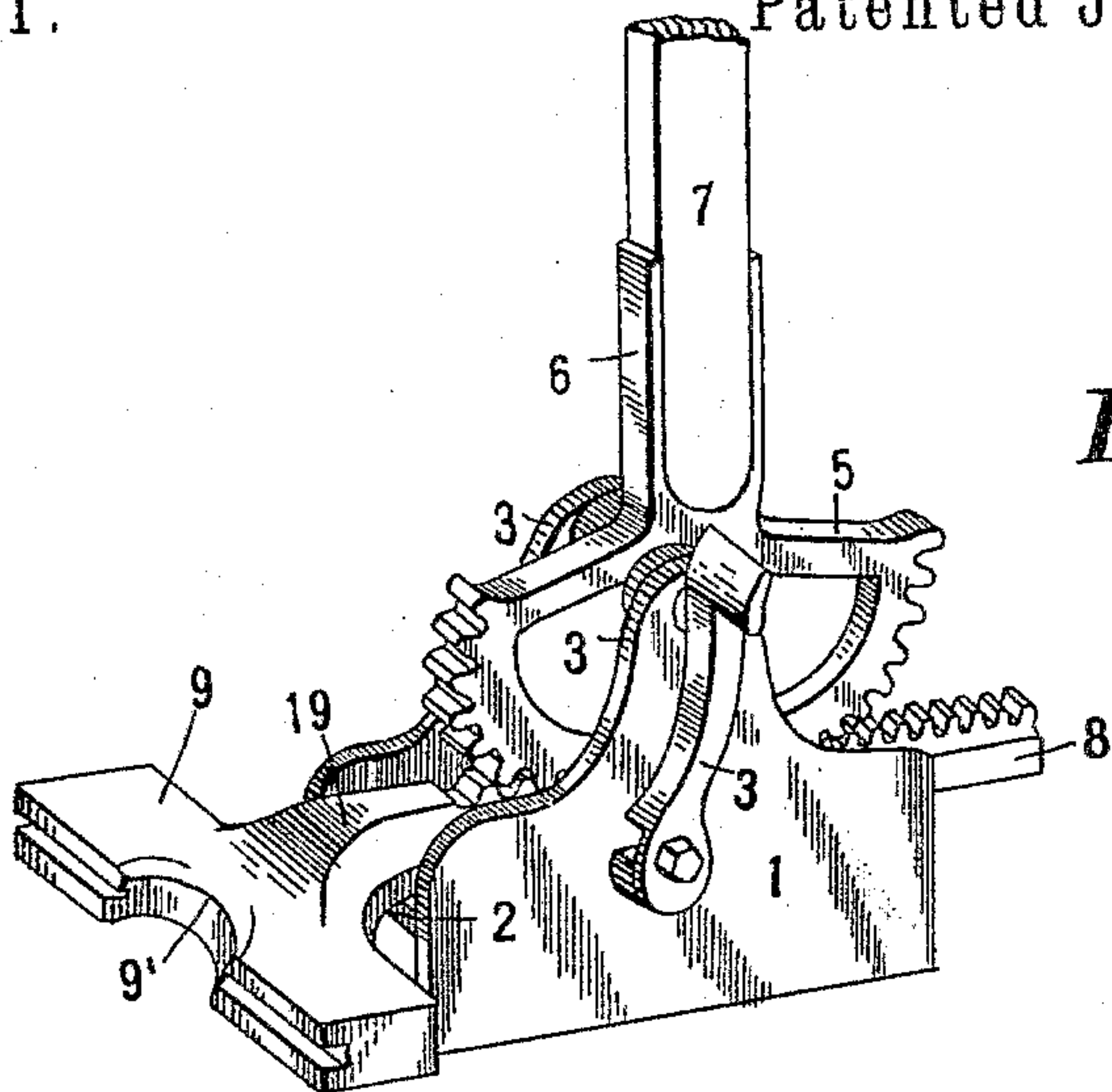


Fig. 1

Fig. 3

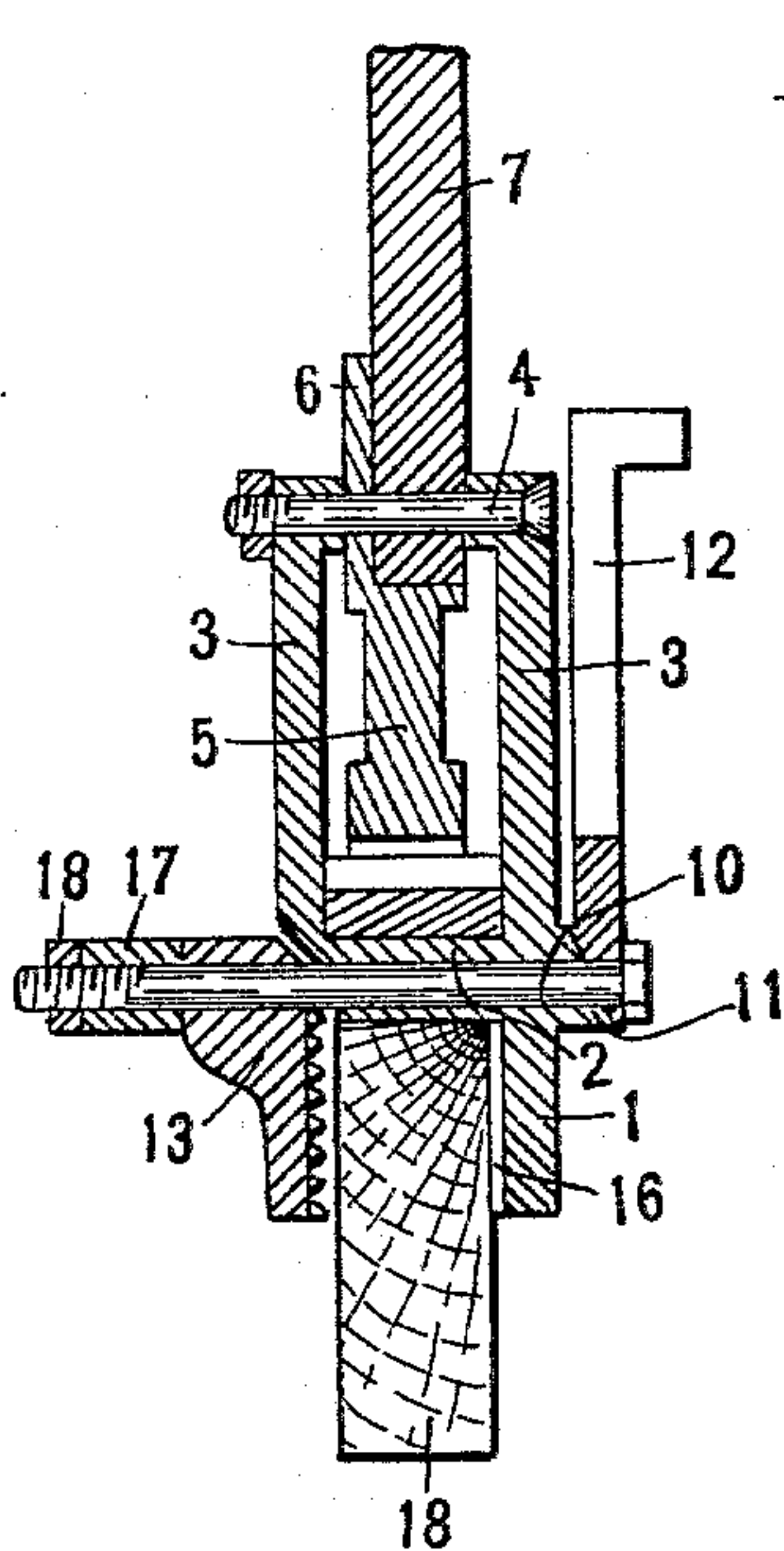
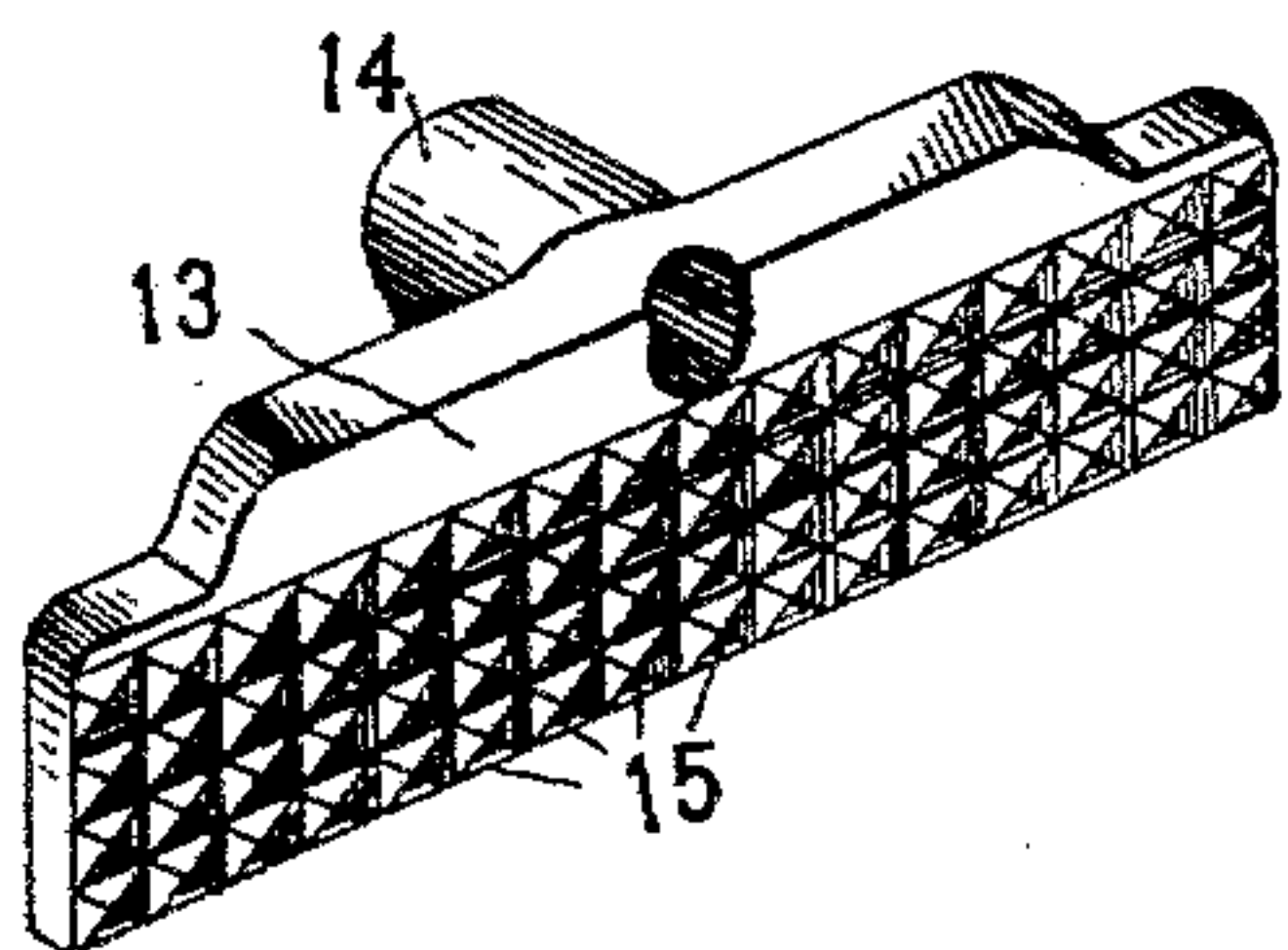


Fig. 2

WITNESSES.

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FLOORING-JACK.

SPECIFICATION forming part of Letters Patent No. 597,671, dated January 18, 1898.

Application filed April 15, 1897. Serial No. 632,236. (No model.)

To all whom it may concern:

Be it known that I, DAVID DUTT, a citizen of the United States, residing at Riverdale, in the county of Gratiot and State of Michigan, have invented certain new and useful Improvements in Flooring-Jacks; 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, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to new and useful improvements in flooring-jacks; and it consists in the construction and arrangement of parts, as hereinafter fully set forth, and pointed out particularly in the claim.

The object of the invention is to provide a jack of the character set forth which may be quickly and easily clamped to rafters or stringers of various thicknesses for holding it in position, there being also a movable lever and a ramming device, which object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a general perspective view of a flooring-jack as made in accordance with my invention. Fig. 2 is a central vertical section through Fig. 1. Fig. 3 is a detail in perspective of the adjustable clamping-jaw.

The body portion of this jack consists of a side plate 1, having a base or shelf 2 formed integral therewith and extending at right angles therefrom. Rising from said plate 1 and base 2, parallel with each other, are ears 3, and extending between said ears from one to the other is a bolt 4. Pivoted upon said bolt is a segment 5, said segment having gear-teeth around its gear edge and a socket 6, extending from its axis, in which socket a lever 7, formed of wood or other suitable material, is adapted to be seated and secured.

Adapted to be moved longitudinally within the guideway formed between ears 3 and base 2 is a bar 8, having gear-teeth arranged along its upper edge, said teeth being of such size and formation as to mesh with the teeth of segment 5. The forward end of said bar terminates in a right-angled head 9, said head being provided with channels in its front side and a recess or notch 9' therein for purposes hereinafter referred to.

It will be seen that by throwing lever 7 to the right (looking at Fig. 1) bar 8 and head 9 will be protruded, and if said lever be thrown in the opposite direction they will be retracted. Projecting from the outer face of plate 1 is a sleeve 11, the outer end or face of which is beveled. Extending through said sleeve and base 2 is a bolt 10, said bolt having mounted upon its outer end a clamping-lever 12. The outer end of said lever 12 is provided with an operating foot-piece, its lower end being beveled to correspond with the bevel of sleeve 11. The opposite end of said bolt has an adjustable clamping-jaw 13 mounted thereon. Said jaw 13 is clearly represented in Fig. 3, in which view is shown a sleeve 14, formed integral therewith, the opening through said sleeve leading outward from the front face of said jaw. The bearing-face of said adjustable jaw is provided with a series of pointed heads 15, which are adapted to penetrate the surface of the beam or stringer upon which it is to be clamped. The opposite corresponding face of plate 1 is provided with a series of vertical extending corrugations. (Shown at 16 in Fig. 2.) Mounted upon bolt 10, adjacent to adjustable jaw 13, is a sleeve 17.

18 designates a suitable nut which is adapted to be screwed upon the threaded end of bolt 10 to bind clamping-lever 12, base 2, jaw 13, and sleeve 17.

Should the jack herein described be used in constructing a floor wherein larger rafters than the one shown at 8 be employed, sleeve 17 would not be employed, but adjusting-jaw 13 would be moved outward and come directly in contact with nut 18, as will be readily understood.

When desired to force a flooring-strip tightly against the one contiguous thereto, the improved tool herein described is placed upon one of the rafters adjacent to the newly-laid strip and clamping-lever 12 operated to cause its angled face to bear against the corresponding angled face of sleeve 11, which draws upon bolt 10 and firmly clamps the jack upon said rafter, as will be apparent. When the tool has thus been secured, lever 7 will be inclined or lying over to the left, and by throwing it in the opposite direction bar 8 and head 9 will be moved outward to—

ward the strip to be clamped, allowing the tongue of said flooring-strip to lie within the groove in the outer face of head 9. When the strip has been compressed to the desired degree, a nail or other suitable fastening device may be driven through said strip into the rafter in the usual manner, the notch or recess 9' being formed for the admission of said nail, which notch comes directly in line with the rafter to which the device is secured. When desired to remove the jack, a corresponding reverse operation of the levers releases the parts, as will be readily understood.

15 A downward bend is formed at 19 in bar 8, so that a flooring-strip may be tightly clamped while lying flat upon the rafter.

It will thus be seen that the construction and arrangement of parts hereinbefore set forth produces a flooring-jack that may be cheaply manufactured and one which is adjustable and easily secured in place, quickly operated to produce the desired result, and one which may be quickly removed for a succeeding operation.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

A flooring-jack consisting of side and base plates, said plates having parallel ears rising therefrom, the segment pivoted between said ears, the operating-lever secured to said segment, the rack-bar adapted to be projected and retracted between said ears by the operation of said segment, the downwardly-bent neck of said bar, the notched and grooved cross-head formed integral with said neck, the movable jaw adjustably secured to said base-plate, the angled sleeve projecting from the outer face of said plate 1 and the clamping-lever having a correspondingly-angled end, and the parts adapted to be operated, substantially as shown and described for the purpose set forth.

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

DAVID DUTT.

Witnesses:

J. W. NICKERSON,
J. F. THURLBY.