

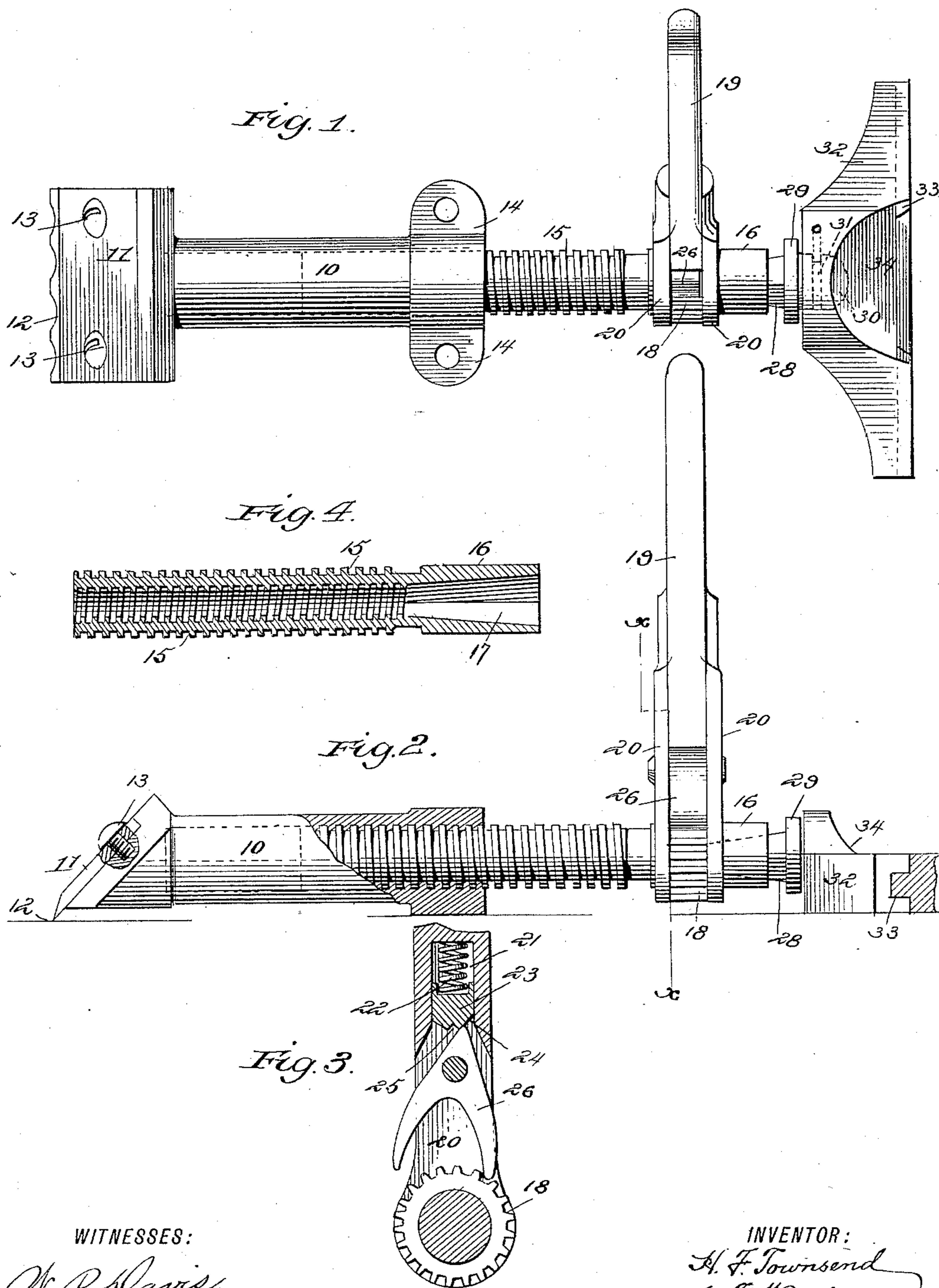
(No Model.)

2 Sheets—Sheet 1.

H. F. TOWNSEND & C. T. WINSLOW.
FLOORING JACK.

No. 401,868.

Patented Apr. 23, 1889.



WITNESSES:

W. R. Davis.
W. Sedgwick

INVENTOR:

H. F. Townsend
C. T. Winslow
Munn & Co.

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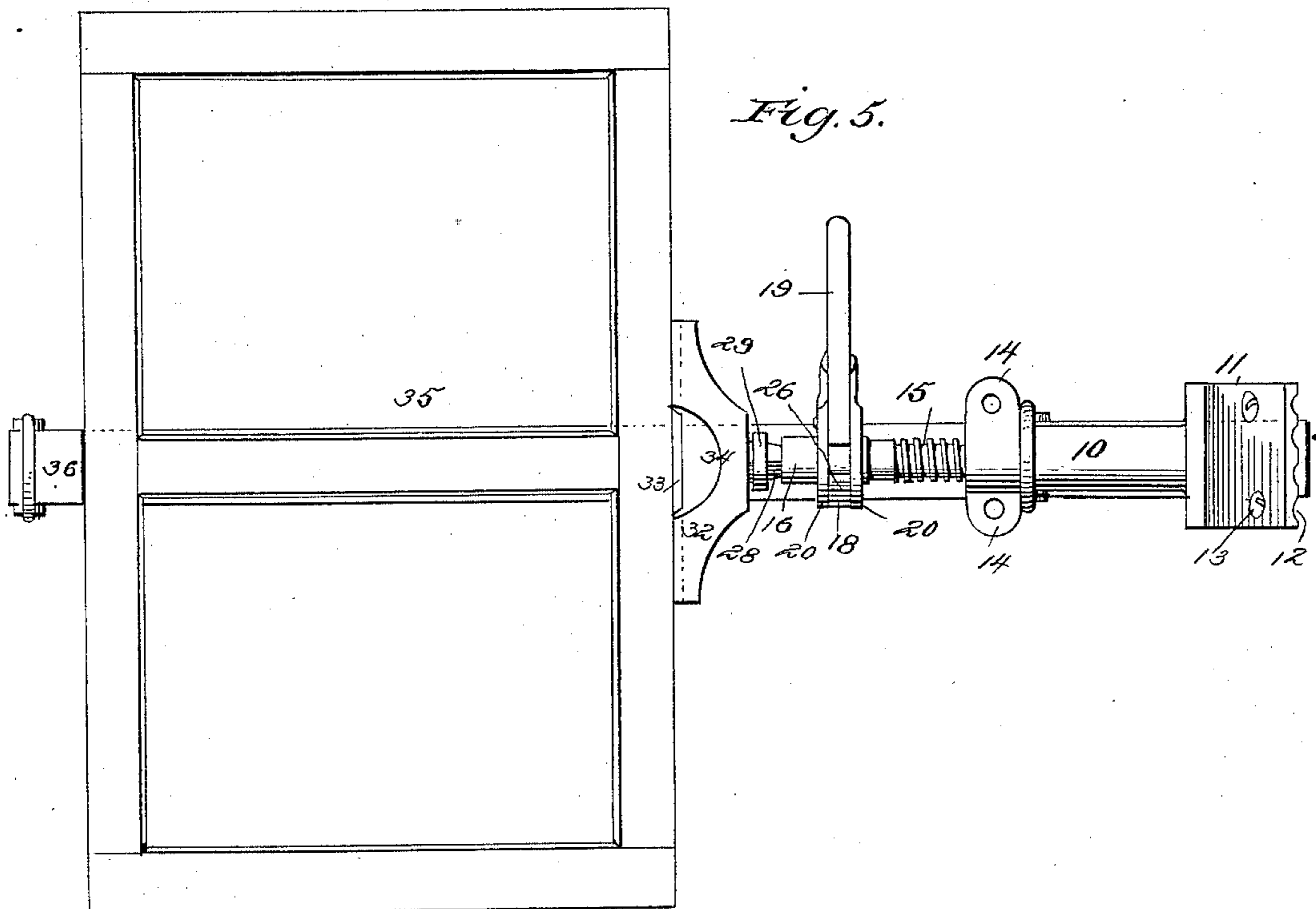
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UNITED STATES PATENT OFFICE.

HERMAN F. TOWNSEND, OF PLAINFIELD, VERMONT, AND CHARLES T. WINSLOW, OF WOODSVILLE, NEW HAMPSHIRE.

FLOORING-JACK.

SPECIFICATION forming part of Letters Patent No. 401,868, dated April 23, 1889.

Application filed October 19, 1888. Serial No. 288,646. (No model.)

To all whom it may concern:

Be it known that we, HERMAN F. TOWNSEND, of Plainfield, in the county of Washington and State of Vermont, and CHARLES T. WINSLOW, of Woodsville, in the county of Grafton and State of New Hampshire, have invented new and useful Improvements in Flooring-Jacks, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in jacks for laying floors, clamping sash, and other purposes, and has for its object to provide a device of simple and durable construction which may be conveniently manipulated and used for various purposes.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the device when used as a floor-jack. Fig. 2 is a side elevation partially broken away. Fig. 3 is a section partially on line *x x* of Fig. 2, and Fig. 4 is a detail sectional view of the stem. Fig. 5 is a side elevation of the device used as a sash-clamp.

In carrying out the invention the body 10 is preferably made cylindrical and provided with a threaded bore extending longitudinally from the inner end to within a short distance of the outer end. The outer end of the body is provided with a head or base, which is made to incline outward from top to bottom, and upon said inclined surface a plate, 11, is attached, having produced in the lower edge a series of teeth, 12. The attachment of the plate to the body is usually effected through the medium of the screws 13, in order that the plate may be readily detached when desired. The inner end of the body is usually provided with ears 14, whereby the device may be fastened down to the floor or attached to the sides of a building or room or the ceiling.

An exteriorly-threaded shank or spindle, 15, is secured into the bore of the body, which

spindle is preferably tubular and threaded upon the interior also, the interior and exterior threads extending from the end adapted for insertion into the bore of the body to within a short distance of the outer end, which is preferably enlarged, as shown at 16. The enlarged end is provided with a tapering rectangular bore, 17, and an attached ratchet-wheel, 18.

At each side of the ratchet-wheel the members of a lever, 19, are journaled, the lower or inner end of which lever is bifurcated or provided with an arm, 20, attached upon opposing sides. In the end of the lever between the arms a longitudinal recess, 21, is formed, in which recess a spring, 22, is located, having secured to the lower end a head-block, 23, provided with beveled sides 24 and a central notch, 25. The head-block is adapted to slide in said recess, as best shown in Fig. 3.

Between the arms of the lever 19 and below the head-block a V-shaped dog, 26, is pivoted, the angled body whereof engages with the head-block and the members with the ratchet-wheel 18. The two members of the dog do not engage the ratchet-wheel at the same time, and either is thrown in engagement, according to the direction in which the spindle is to be revolved, by placing the body of the dog in contact with one of the beveled surfaces 24. When the body of the V is placed in the central notch of the head-block, neither member of the V engages with the ratchet-wheel.

A tapering plug, 28, rectangular in cross-section, is introduced into the tapering rectangular bore of the revoluble spindle, provided with a collar, 29, and a head, 30, which head is fitted with an annular groove, 31.

A clamping-block, 32, is detachably secured to the plug 28, the said clamping-block being to that end provided with a recess in the inner face, purposed to receive the head of the plug 28, and an aperture intersecting the recess, through which a screw is passed into the groove of the plug-head, as shown in Fig. 1. In the inner face of the clamping-block a longitudinal groove, 33, is produced to receive the tongue of the board to be jacked, and the central surface, 34, of the

clamp is beveled upwardly and rearwardly from the groove 33 to admit of the convenient driving of a nail into the board.

In operation the teeth of the body-plate 5 are driven into the floor-beam, joist, or other support, and the clamp-block is forced forward by manipulating the ratchet-lever and thereby revolving the spindle.

The device above described may be employed to clamp window-frames and other articles by being secured upon a bar or beam, 35, as shown in Fig. 5, which bar or beam is provided with a head-block, 36, secured thereto at any point in the length of the beam 15 or bar. One face of the head-block is made to approach the grooved face of the clamping-block.

The spindle 15 is interiorly threaded to admit of the attachment of a drill chuck or point, if it is found desirable to use the ratchet in that connection.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

25 1. The combination, with the body 10, having a head or base at its outer end and a screw-threaded bore extending inwardly from its inner end, of the screw-threaded spindle 15, entering said bore and having a socket, 30 17, in its outer end, a removable headed plug, 28, inserted in said socket, a block turning freely on said plug, and the operating-lever connected to the spindle, substantially as set forth.

35 2. The combination, with the body 10, having a screw-threaded bore extending inwardly

from its inner end, of the tubular spindle 15, provided with a ratchet-lever and having exterior and interior threads extending from its inner end to a point near its outer end, a 40 socket, 17, in said outer end, and a detachable headed plug inserted in said socket and provided with a freely-turning head, substantially as set forth.

3. The combination, with an interiorly- 45 threaded body, a toothed plate attached at one end of the body, and a threaded spindle screwed into the said body, of a ratchet-wheel fast upon the spindle, a lever pivoted upon the spindle, a V-dog pivoted in the lever, a 50 tapering headed plug inserted in one end of the spindle, and a clamping-block detachably secured to the said plug, substantially as shown and described.

4. The combination, with an interiorly- 55 threaded body, a toothed plate detachably secured at one end of the same, and a threaded tubular spindle screwed into the said body, of a ratchet-wheel fast upon the spindle, a lever pivoted upon the spindle, a spring-act- 60 uated notched head-block held in the lever, a pivoted V-dog engaging the ratchet-wheel and head-block, a headed plug held in one end of the spindle, and a clamping-block detachably attached to said plug, substantially 65 as shown and described.

HERMAN F. TOWNSEND.
CHARLES T. WINSLOW.

Witnesses:

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EUGENE C. HOYT.