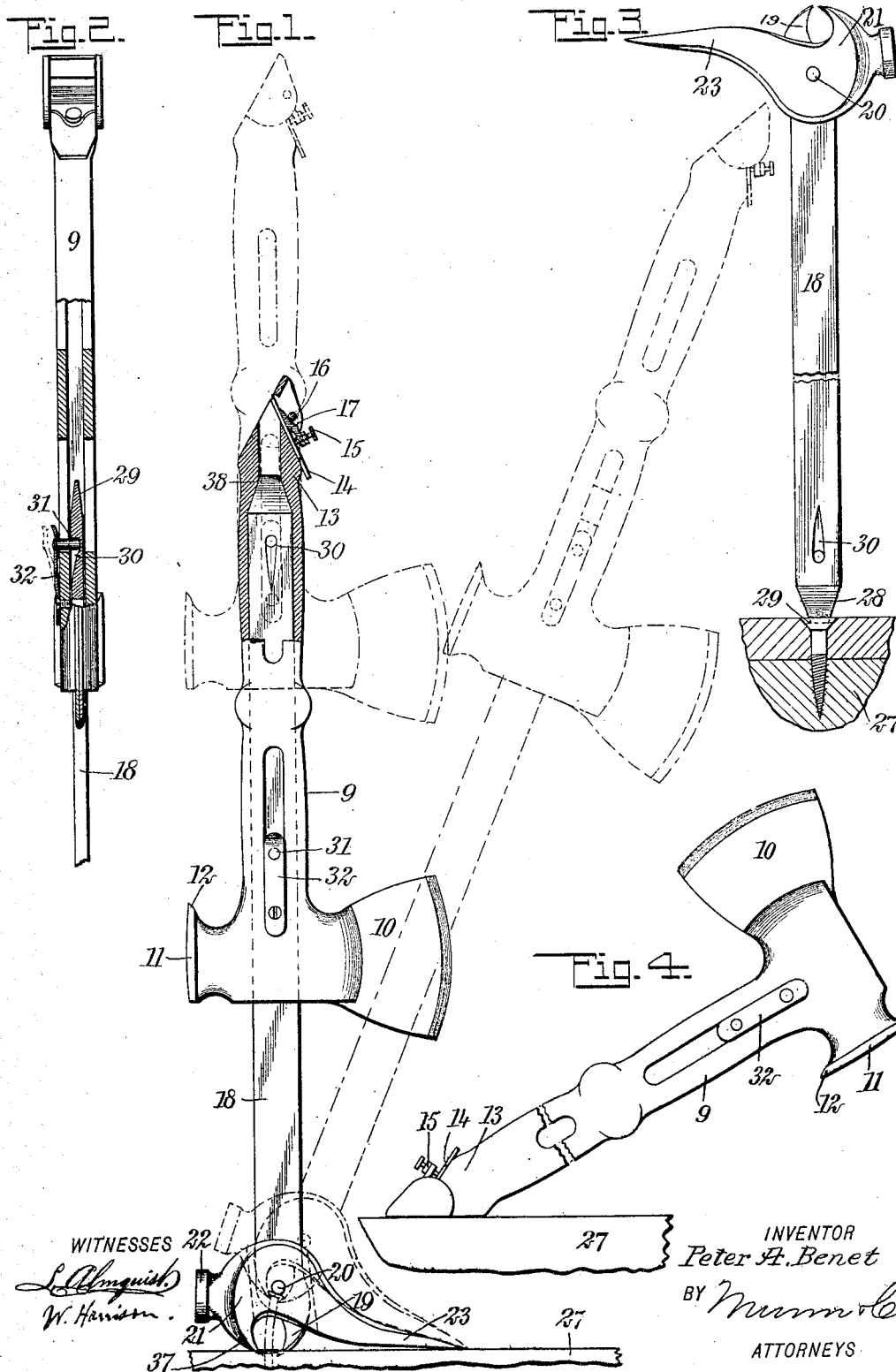


No. 872,271.

PATENTED NOV. 26, 1907.

P. A. BENET.
COMBINATION TOOL.
APPLICATION FILED JULY 7, 1906.

2 SHEETS—SHEET 1.

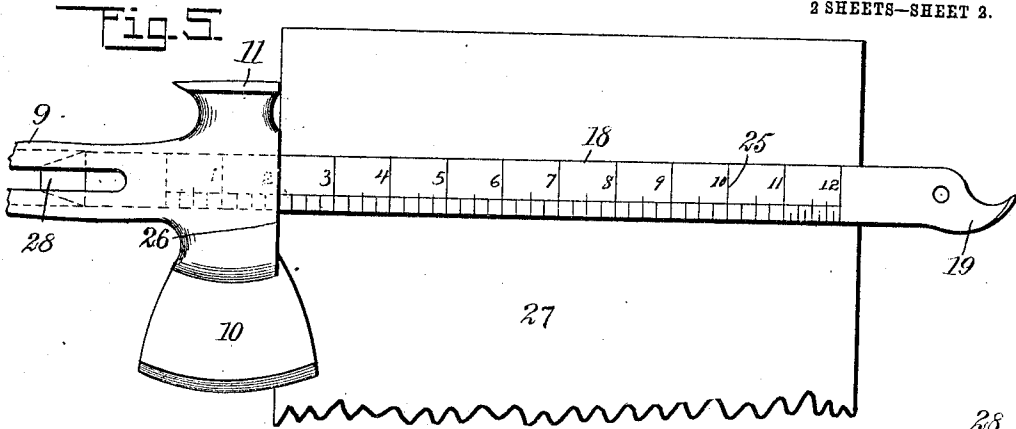
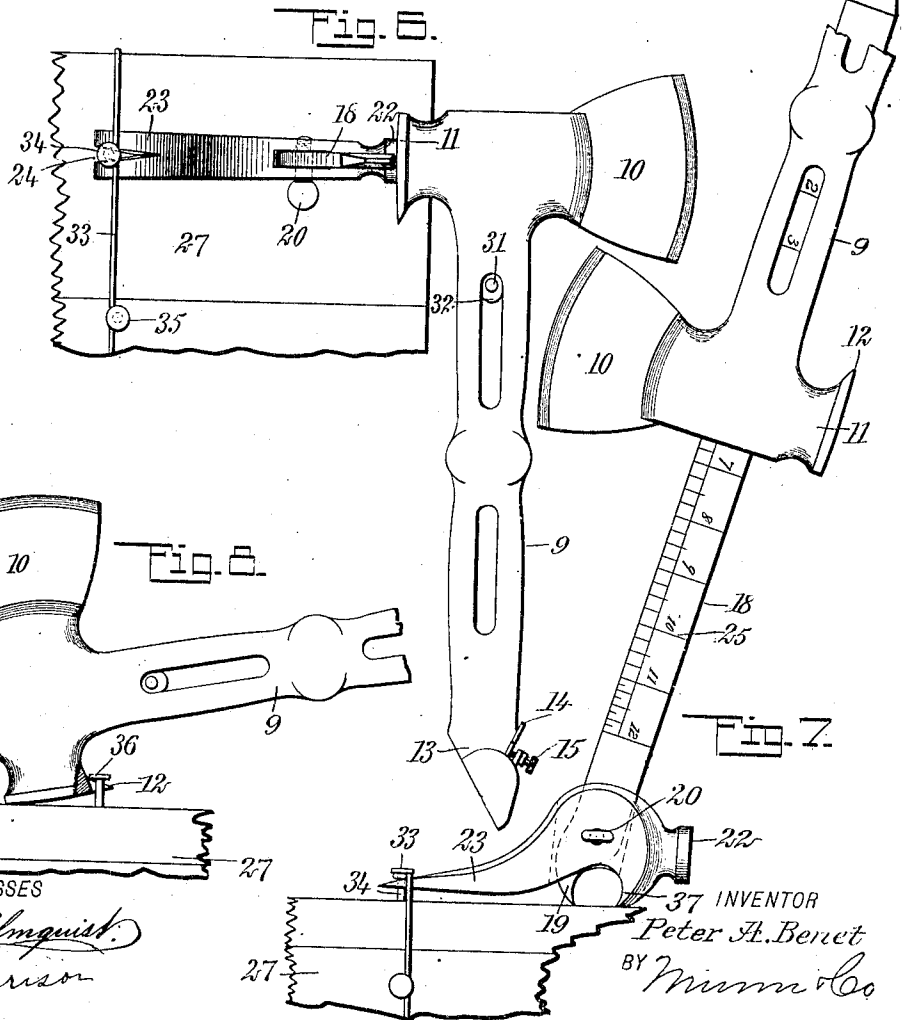
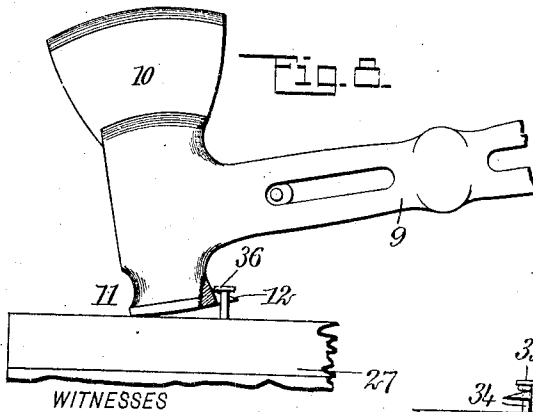


No. 872,271.

PATENTED NOV. 26, 1907.

P. A. BENET.
COMBINATION TOOL.
APPLICATION FILED JULY 7, 1906.

2 SHEETS—SHEET 2.



WITNESSES
L. Almqvist.
W. Harrison

Fig. 7.

INVENTOR
Peter A. Benet
BY *Mum & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PETER A. BENET, OF BOSTON, MASSACHUSETTS.

COMBINATION-TOOL.

No. 872,271.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed July 7, 1906. Serial No. 325,093.

To all whom it may concern:

Be it known that I, PETER A. BENET, a citizen of the Republic of Cuba, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Combination-Tool, of which the following is a full, clear, and exact description.

My invention relates to a combination tool, my more particular purpose being to produce a device of this character provided with a number of related parts serving different purposes, the device being of especial value in reference to boxes and other receptacles used for packing and unpacking goods.

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

Figure 1 is a side elevation partly broken away, and showing the device as used for loosening and pulling nails; as indicated in full lines the nail is being gripped by its head, and as indicated in dotted lines the nail is being withdrawn; Fig. 2 is a fragmentary elevation partly in section, showing the device as seen from the right of Fig. 1; Fig. 3 is an elevation showing the blade portion and certain accompanying parts of the tool employed as a screw-driver; Fig. 4 is a side elevation showing the tool when used as a plane; Fig. 5 is a fragmentary plan showing the device employed as a square and also as a ruler; Fig. 6 is a fragmentary plan showing the tool used as a hammer and also as a chisel for loosening strips and nails; Fig. 7 is a side elevation showing the device used as a pointed crow-bar for lifting a strip and for pulling a nail; and Fig. 8 is a fragmentary side elevation showing the tool when employed as a claw-hammer for extracting nails.

The handle is shown at 9, and has generally the form of a flattened tube. Mounted rigidly upon this handle portion is a hatchet portion 10, and a hammer portion 11, the latter being provided with a claw 12 for extracting nails. Mounted upon the opposite end 13 of the handle is a blade 14 secured in position by a set screw 15. A pin 16 extends through the handle immediately above the blade 14, and intermediate of this blade 14 is a clamp 17. By adjusting the thumb-screw 15 the blade 14 may be set deep or shallow, as the case may be, so as to cut more or less deeply. The blade being adjusted, the han-

dle is turned into position indicated in Fig. 4, and the device may now be used as a plane. In this connection the tool is of special service for removing address marks and symbols used for shipping, and especially where old boxes are to be used a second or third time.

The blade 18 is provided at one of its ends with a claw 19, and mounted upon the blade by means of a pivot 20 is a head 21 provided with a hammer face 22 and with an extended portion 23; this extended portion 23 is bifurcated at 24 as will be understood from Fig. 6. The blade 18 is provided with graduations 25, being thus adapted for use as a ruler.

The hatchet portion 10 is provided with a straight edge 26 which is disposed exactly at a right-angle to the general length of the blade 18. The straight edge 26 and blade 18 may, together, be used as a square, as indicated in Fig. 5.

In order to apply the square to a box 27 or other article to be marked or otherwise treated, the ruler 18 is simply laid upon its surface and the handle 9 so manipulated as to bring the straight edge 26 directly against the edge or side of the box, as indicated in Fig. 5.

The blade 18 terminates at one of its ends in a wedge-shaped surface 28, which may be brought into engagement with a screw-head 29 as indicated in Fig. 3. For this purpose the blade 18 is removed from the handle 9. The blade 18 is provided with an aperture 30 into which a latch 31 mounted upon a spring 32 may snap, as indicated in the lower portion of Fig. 2. Ordinarily, when the blade 18 is drawn into the position corresponding to that indicated in Fig. 2, the latch 31 snaps into the aperture 30 and prevents the removal of the blade. By raising the spring 32 as indicated by the dotted lines in Fig. 2, however, the blade may be withdrawn. When the blade is used as a screw-driver, as indicated in Fig. 3, the head 21 is used as a handle for turning the blade.

As indicated in Fig. 6, the head 23 may be employed for the purpose of prying such objects as the strip 33, and nails 34, 35. In order to get the claw portion of the head 23 under the strip 33 or astride of the nail 34 as the case may be, the hammer portion 11 is struck against the hammer face 22 of the head as will be understood from Fig. 6.

In order to withdraw a nail, the head of which already projects a little from the surface into which the nail is driven, the device

is employed as indicated in Fig. 8; or in other words, is used after the manner of an ordinary claw hammer. If it be desired to pry a strip afterwards, the claw 23 is driven under the strip as indicated in Fig. 7; for this purpose, the hammer head 11 may be struck against the hammer face 22. This being done, the operator grasps the handle 9, and pulling it to the right and downwardly, according to the view shown in Fig. 7, exerts more or less leverage against the strip 33 and the nail 34.

The action shown in Fig. 7 may be considered as a continuation of that shown in Fig. 6.

The head 21 is provided with a claw 37 which mates the claw 19 as will be understood from the lower portion of Fig. 1. In order to withdraw a nail which is buried to its head, the two claws 19, 37, are disposed upon opposite sides of the nail-head as shown in Fig. 1. The operator then grasps the handle 9, raises it as indicated in the dotted lines of this figure, and brings it down forcibly. The finger portions 28 of the screw-driver strike within a sort of throat 38, so that the downward movement of the handle is suddenly stopped, the entire force of the blow being transferred to the jaws 19, 37, which thereupon grip the nail head. The handle now being forced to the right as indicated by dotted lines, the nail is withdrawn. Before moving the handle 9 to the right however, the operator may, if he so desires, raise the handle to its upward limit, and then by pressing upon its extreme upper end he may exert suitable leverage upon the nail.

My invention may be used in a great variety of relations, and its object is to avoid the necessity for carrying around a number of promiscuous tools.

My invention is used as follows: The oper-

ator removes any strips or nails from a box and uses the plane as above described, to cut away any lettering; he then applies new nails or he may replace the old ones, driving them firmly into the box. New lettering may now be placed upon some other part of the box or even upon the part just cleaned by the plane. If in connection with the box or in handling pianos or the like, it becomes necessary to loosen or tighten a screw, the operator immediately supplies himself with a screw-driver in the manner above described. The point of the claw 23 may also be used as a screw-driver if desired.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:—

In a device of the character described, the combination of a pair of members connected pivotally together and provided with claws for the purpose of gripping a nail or the like, one of said members being provided with a longitudinal portion for increasing the leverage between said claws, said longitudinal portion terminating at one of its ends in a screw driver blade having a sharp portion, and also having shoulders disposed upon opposite sides of said sharp portion, and a handle mounted telescopically upon said longitudinal portion of said blade and provided with a pair of oppositely disposed impact surfaces for engaging said shoulders and receiving therefrom the force of impact so as to avoid injury to the sharp portion of said screw driver blade.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER A. BENET.

Witnesses:

F. W. HANAFORD,
EVERARD B. MARSHALL.