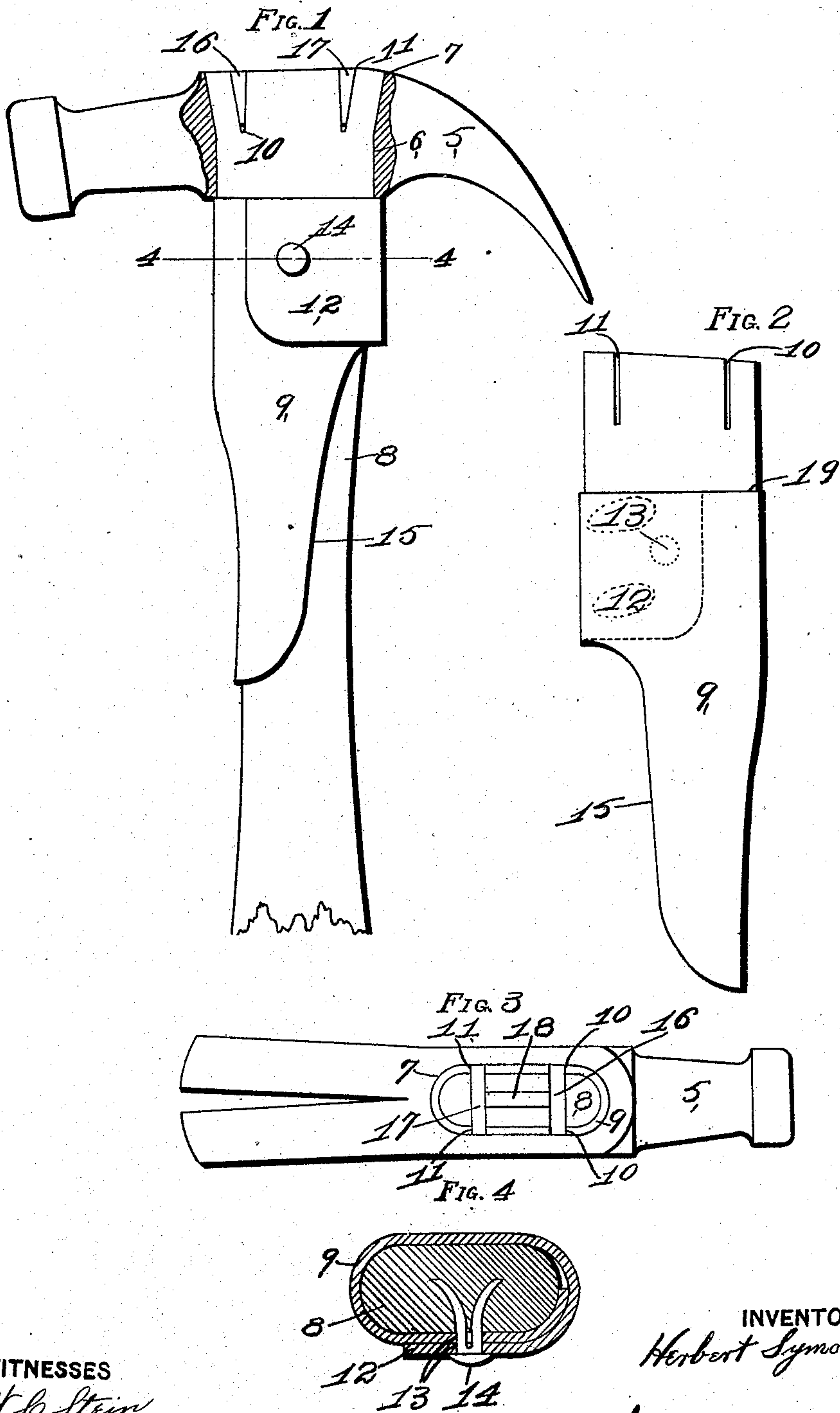


H. SYMONDS.
HAMMER.

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911,779.

Patented Feb. 9, 1909.



WITNESSES

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UNITED STATES PATENT OFFICE.

HERBERT SYMONDS, OF EAST ST. LOUIS, ILLINOIS.

HAMMER.

No. 911,779.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HERBERT SYMONDS, a citizen of the United States, and resident of East St. Louis, Illinois, have invented certain new and useful Improvements in Hammers, of which the following is a specification.

My invention relates to improvements in hammers, and has for its object to provide a hammer with a connecting means interposed between the handle and the head, whereby the head is secured to the handle by means which will not impair the flexibility of the handle itself.

In the drawings—Figure 1 is a vertical side elevation of a hammer embodying my invention, showing the side of the head broken away. Fig. 2 is a similar view of the clamping means employed to connect the head with the handle. Fig. 3 is a top plan view of the hammer head, the handle being in place. Fig. 4 is a transverse sectional view of the handle and the connecting member, taken along the line 4—4 of Fig. 1.

As shown in the drawings, the hammer head 5 is of usual construction, except that the eye 6 is provided with a flare 7 in its front and rear walls; its side walls being parallel. The handle 8 is of usual construction.

The connecting means between the head 5 and the handle 8 is the tubular clamping member 9, preferably constructed from a single sheet of metal and made into the form indicated in the drawings; its upper portion being substantially oval in shape to conform with the upper extremity of the handle, and provided with the slots 10—10 and 11—11 at its upper extremity, which slots are oppositely disposed and are in alinement with each other.

The clamping member 9 is provided with the tongue 12 which is folded about the clamping member in the manner indicated in section in Fig. 4; the face upon which the tongue 12 is superimposed and the tongue itself being provided with registering perforations 13 to admit the bifurcated clenching nail 14, which is driven into the handle as indicated in Fig. 4. The lower portion of the clamping member 9 is cut away at its side opposite the striking face of the hammer, as indicated by the numeral 15; the pur-

pose of said clamp 9 being so cut away being that it will not impair the natural resiliency of the handle 8, and thus detract from the efficiency of the hammer. The clamping member 9 being thus secured in place upon the handle 8, the upper portion of the handle and the clamp are then inserted in place within the eye 6 and the wedge 16 is driven in place within the slots 10—10, thus forcing the upper portion of the clamp 9 outwardly to conform with the flare 7 at the end of the eye 5; and a wedge 17 is similarly driven into the slots 11—11 to force the opposite end of the top of the clamp member 9 into place within the flare 7. A transverse wedge 18 is then driven into the top of the handle 8 in the manner indicated in Fig. 3, and at right angles to the wedges 16—17; the wedge 18 being of sufficient width to extend from the wedge 16 to the wedge 17 and to contact with the inner faces of said wedges.

By the means described the head 5 is securely located in place upon the upper end of the clamp member 9 and the head 5 and tubular member 9 are securely fixed upon the handle 8 by means of the bifurcated nail 14 and wedges 16—17 and 18.

The clamping member 9 is adapted to fit closely around that portion of the end of the handle which is to be inserted within the eye 6; and is provided beneath such portion with the shoulder 19, extending entirely about the clamping member 9 and adapted to engage with the lower face of the head 5 when the handle 8 and clamping member 9 are inserted into position.

Having thus fully described my invention, what I claim and desire to have secured to me by the grant of Letters Patent, is:

1. In a hammer, the combination of a head having an eye flared at its top; a handle; a clamping member adapted to conform to the upper end of the handle and extend through said eye, and having slots at its upper end arranged transversely to the longitudinal axis of the eye; and wedges adapted to be driven into said slots at the upper end of said handle to force said clamping member to conform to the flare of the eye in the head of the hammer, substantially as described.

2. In a hammer, the combination of a head having an eye flared at its top; a handle; a tubular clamping member adapted to ex-

tend through the eye of the hammer-head and formed of a single sheet of metal folded over upon itself and provided with slots at its upper end, said slots being arranged transversely to the longitudinal axis of the eye; and wedges adapted to be driven into said slots at the upper end of said handle to force said clamping member to conform to the flare of the eye in the head of the hammer, substantially as described.

3. In a hammer, the combination of a head having an eye flared at its top; a handle; a tubular clamping member formed from a single sheet of metal provided with a tongue and adapted to fold over the main body of the member provided with slots at its upper end; wedges adapted to be driven into said slots at the upper end of said handle to force said clamping member to conform to the flare of the eye in the head of the hammer; and a bifurcated clenching nail adapted to be driven through the tongue and adjacent wall of the clamping member to secure the clamp-

ing member in place upon the handle, substantially as described.

4. In a hammer, the combination of a head having an eye flared at its top; a handle; a tubular clamping member, its upper end being conformed to the portion of the handle entering the eye of the head and adapted to extend through said eye and provided with a shoulder beneath such portion adapted to engage the lower face of the head and provided with slots arranged transversely to the longitudinal axis of the eye; and wedges adapted to be driven into said slots at the upper end of said handle to force said clamping member to conform to the flare of the eye in the head of the hammer, substantially as described.

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

HERBERT SYMONDS.

Witnesses:

JAMES L. HOPKINS,
WALTER C. STEIN.