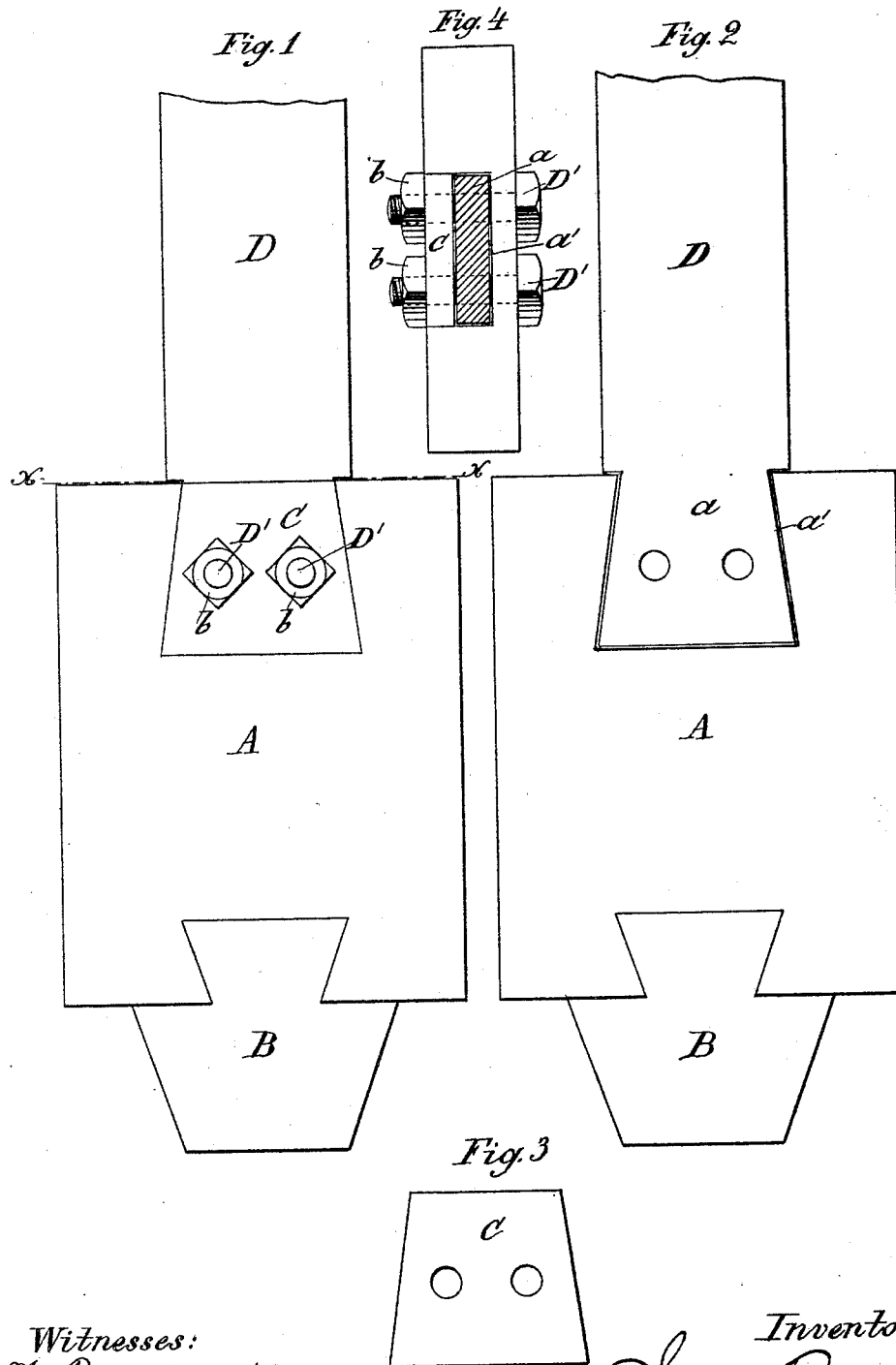


(No Model.)

J. BASS.  
DROP HAMMER.

No. 459,131.

Patented Sept. 8, 1891.



Witnesses:  
*J. Bergengren*  
*O. Sundgren*

Inventor:  
*J. Bass*  
by his Attorneys  
*Brown & Grubbs*

# UNITED STATES PATENT OFFICE.

JAMES BASS, OF BROOKLYN, NEW YORK, ASSIGNOR TO MANNING MERRILL  
AND EDWARD W. MERRILL, OF SAME PLACE.

## DROP-HAMMER.

SPECIFICATION forming part of Letters Patent No. 459,131, dated September 8, 1891.

Application filed November 28, 1890. Serial No. 372,960. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES BASS, of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Drop-Hammers, of which the following is a specification.

My improvement relates to a drop in which the hammer is raised by means of a board connected to the hammer, which board is operated upon by friction-rollers, and embraces means, to be more fully described, for securing the aforesaid board to the hammer.

I have only illustrated the hammer and my improved means for securing the board thereto, as the other parts of the drop are not, broadly, comprised in my invention.

In the accompanying drawings, Figure 1 is a face view of a hammer showing a board attached thereto. Fig. 2 is a similar view, a certain clamping-plate being removed. Fig. 3 is a view of the clamping-plate attached. Fig. 4 is a section taken on the line *xx*, Fig. 1.

Similar letters of reference designate corresponding parts in all the figures.

A designates a hammer, which may be of the usual or any desired form, and is made of metal.

B designates a die secured in the lower portion of the hammer.

D designates a board by which the hammer is raised. This board is provided near its lower end with a portion *a*, here shown as wedge-shaped, which wedge-shaped portion fits within a recess *a'*, also here shown as wedge-shaped, formed within the side of the upper part of the hammer, which recess is closed upon its rear side, but is open at the top, as shown more clearly in Fig. 4. The wedge-shaped portion of the board having been passed sidewise into the recess *a'*, a wedge-shaped clamping-piece C is passed into the recess, so that it rests against the wedge-shaped portion *a* of the board. The clamping-piece C is of substantially the same size and shape as the wedge-shaped portion *a* of the board, and fits snugly within the recess *a'*. Bolts D' may then be passed through

suitable apertures in the wedge-shaped portions *a*, the clamping-piece C, and the hammer, and be secured therein by nuts *b*, which firmly clamp the parts together. This arrangement is advantageous because it admits not only of the rapid uniting and disuniting of the hammer and board, but it also admits of the board being turned end for end, so as to utilize both ends of the board for being grasped between the usual friction-rollers, where the wear upon the board occurs. This, with the modes for attaching the board to the hammer previously used, could not be done advantageously.

Although I have illustrated and described the lower part of the board as provided with a wedge-shaped portion, and the recess and clamping-pieces as also of wedge shape, I wish it to be understood that I do not limit myself to these shapes, as any-shaped recess which has a restricted opening at its upper end might be employed to receive the board and clamping-piece. In fact as the portion of the board within the recess is maintained there almost wholly by friction between the clamping-piece and the rear wall of the recess it is not essential that such portion of the board should be of the same shape as the recess. I prefer, however, that the shape of the clamping-piece should be such that it could not be withdrawn vertically from the recess.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with a hammer having a recess near its upper end open upon one side and at its top, said top opening being restricted, of a board for raising the hammer, provided with a portion near its lower end adapted to be received within said recess, a clamping-piece also adapted to be received within said recess, and bolts for securing the clamping-piece to the board and hammer, substantially as specified.

JAMES BASS.

Witnesses:

JOHN ROGERS,  
JOSEPH KEEGAN.