

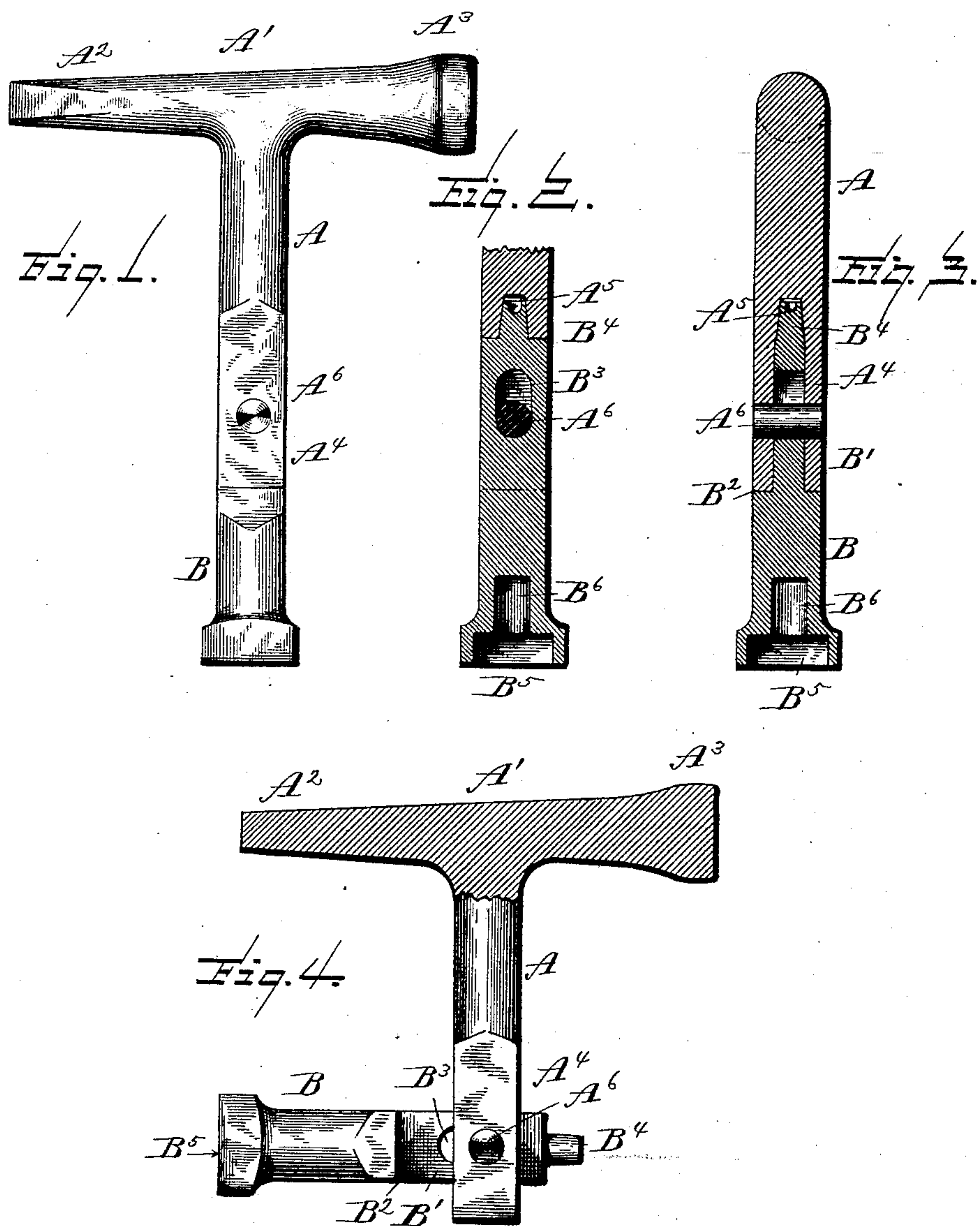
(No Model.)

I. J. MANDEVILLE.

COMBINATION TOOL.

No. 348,565.

Patented Sept. 7, 1886.



Witnesses
S. C. Mills.
W. S. Small.

Inventor:
Ira J. Mandeville,
By his Attorney
E. B. Stocking

UNITED STATES PATENT OFFICE.

IRA J. MANDEVILLE, OF HAZLETON, PENNSYLVANIA.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 348,565, dated September 7, 1886.

Application filed April 26, 1886. Serial No. 200,118. (No model.)

To all whom it may concern:

Be it known that I, IRA J. MANDEVILLE, a citizen of the United States, residing at Hazleton, in the county of Luzerne, State of Pennsylvania, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a combined socket-wrench, hammer, and screw-driver, and my object is to provide a tool especially adapted for the use of stove assemblers and repairers that shall be light, cheap, easy of manufacture, and convenient; and the invention consists in certain features of construction hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of a combined tool constructed in accordance with my invention. Fig. 2 is a longitudinal section of a part of the same; and Fig. 3 is a like view, the section being taken at a right angle to that in Fig. 2. Fig. 4 is a side elevation, the wrench portion being shown in an open position.

Like letters indicate like parts in all the figures of the drawings.

A represents the body portion of my tool, which is formed with a T-head or handle portion, A', one extremity of which is formed in the shape of a screw-driver, A², and the opposite extremity is enlarged, forming a hammer-head, A³. The lower end of the body portion A is bifurcated, as at A⁴, and formed with a socket, A⁵. A wrench portion, B, is adapted to be received between the bifurcations A⁴ of the body portion by being cut away to form a shank, B', and shoulder B². The shank may be, if desired, slightly wedge-shaped to be more firmly seated when forced up between the bifurcations A⁴. The shank is provided with an elongated slot, B³, through which and the bifurcations A⁴ a pin or rivet, A⁶, passes. The top of the shank is formed with a lug, B⁴, adapted to enter the socket A⁵ in the handle, thus holding the wrench portion rigidly in the handle when used as a straight socket-wrench. The lower end of the wrench portion B is enlarged and provided with a square nut-receiving chamber or recess, B⁵, and a cylindrical socket, B⁶, for receiving the screw-threaded end of the bolt. Now, taking the tool in the position shown in Fig. 1, it is plain that it

may be either used as a screw-driver, a hammer, or a straight socket-wrench, and by drawing the wrench portion B down from without the bifurcations A⁴ and turning it one side or the other a wrench is formed for the purpose of getting at nuts up under flanges and other inconvenient places. To again close the wrench and put it in position for use as a hammer, screw-driver, or straight socket-wrench, it is only necessary to swing the wrench portion B down in line with the body portion and push it up into the bifurcations of said handle, the lug B⁴ entering the socket A⁵ therein.

The tool is especially adapted for stove workmen or repairers, as by the different positions the wrench can be caused to assume and the combination of parts it will be found convenient in many instances where ordinary tools would be awkward; but I do not limit the use of the invention to any particular art. If desired, the lug B⁴ may be formed and used as an ordinary punch for perforating sheet metal or for heading rivets, the blows being applied upon the wrench end B⁵.

From the above description it will be seen that the tool may be either cast or wrought, as desired, and will be ready for use without any particular finishing of the parts thereof.

Having described my invention and its operation, what I claim is—

1. A combination-tool comprising a hammer-head and a screw-driver at one end and a socket-wrench at the other end, and a connecting-handle formed of two sections pivoted to each other, whereby the handle may be disposed so as to present the socket-wrench at various angles to the handle, substantially as specified.

2. A combination-tool consisting of the hammer-head A³, screw-driver A², and fixed bifurcated handle-section A, and a movable handle-section, B, having the socket-wrench B⁵, slot B³, and lug B⁴, whereby the socket-wrench may be secured in line with the fixed section of the handle, substantially as specified.

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

IRA J. MANDEVILLE.

Witnesses:

JOHN A. BARTON,
C. BACHMAN.