

(No Model.)

J. DOWLING.
COMBINATION NAIL SET.

No. 534,143.

Patented Feb. 12, 1895.

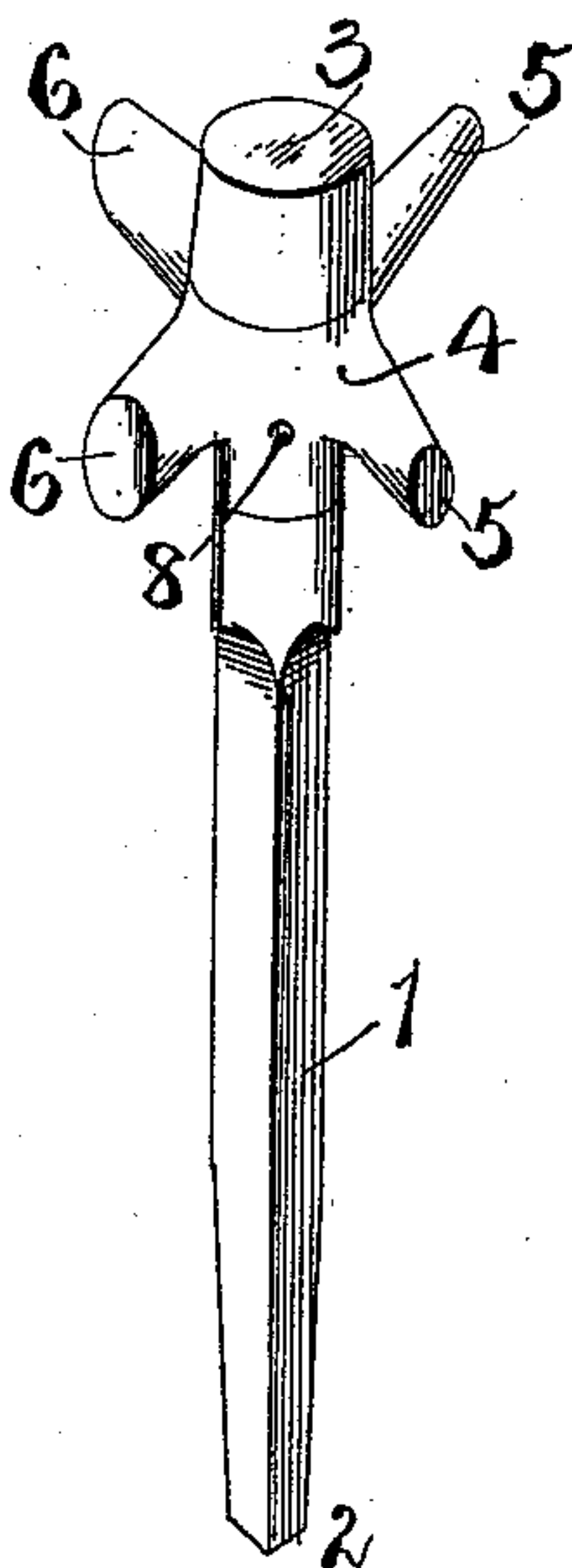


Fig. 1

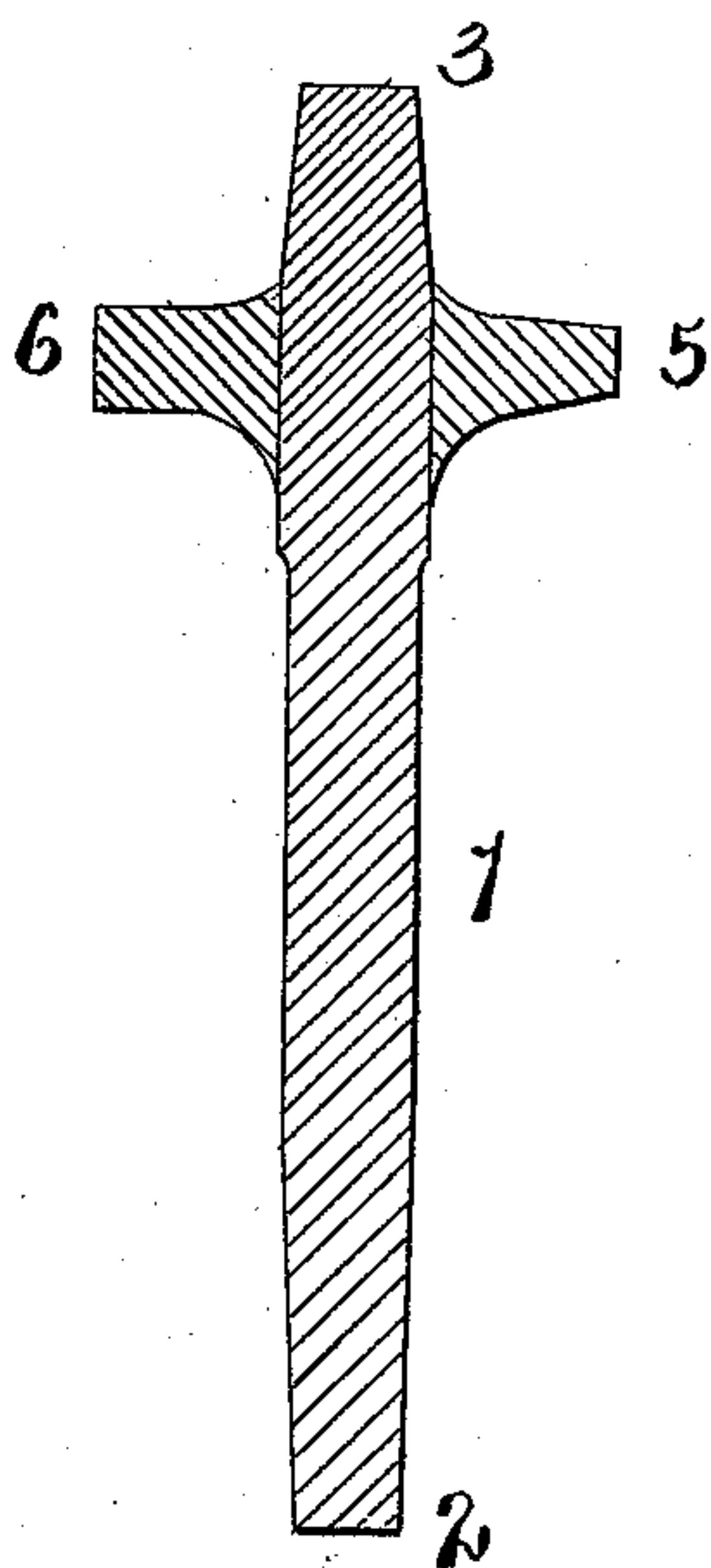


Fig. 2

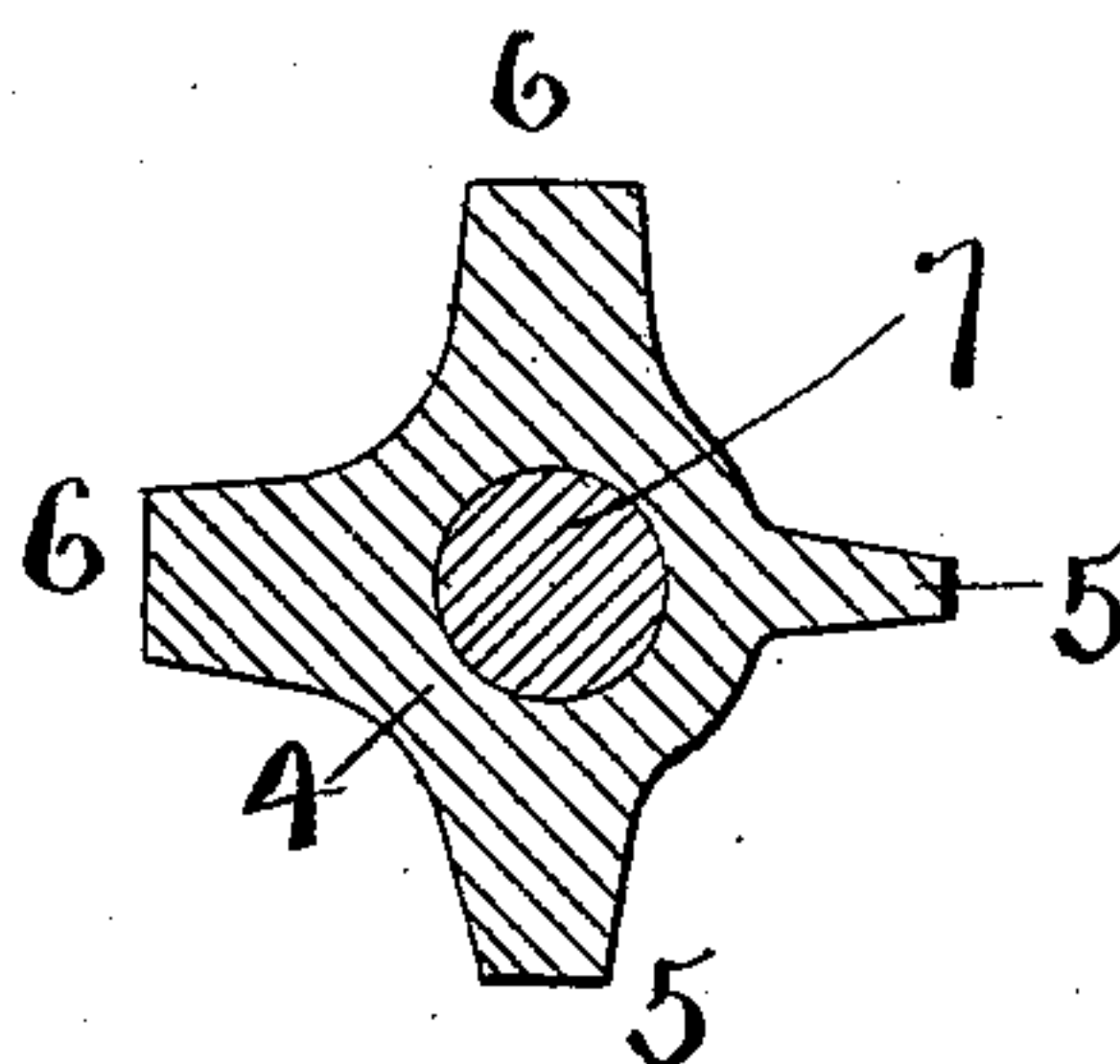


Fig. 3

Witnesses

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JOHN DOWLING, OF WILKES-BARRÉ, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WILLIAM H. NICHOLSON, JR., OF SAME PLACE.

COMBINATION NAIL-SET.

SPECIFICATION forming part of Letters Patent No. 534,143, dated February 12, 1895.

Application filed September 4, 1894. Serial No. 522,111. (No model.)

To all whom it may concern:

Be it known that I, JOHN DOWLING, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Combination Nail-Sets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in that class of wood-working tools known as "nail sets;" the object in view being to produce a tool of simple construction that is adapted for setting nails of various sizes from the small brad to the large nail, and which may be conveniently manipulated or handled to bring it into operative position with relation to such brad or large nail.

Various other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings—Figure 1 is a perspective view of a tool embodying my invention. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view through the punch-head.

Like numerals of reference indicate like parts in all the figures of the drawings.

The body or shank of the tool is designated as 1, and may be either rectangular or round in cross-section, and is gradually tapered from an intermediate point to its lower end, thus producing at said lower end the punch 2, adapted for operating upon the heads of nails of certain sizes. The upper or opposite end of the shank or body-portion serves as a head 3, to receive the impact of the hammer employed for giving impetus to the setting-tool. As thus far described it will be apparent that I have produced merely the ordinary well-known nail-set, and various sizes of these are necessary to all complete tool-kits. When a number are employed, the workman loses time and expends considerable patience in rummaging through the kit for the desired size of punch, and as heretofore intimated, by

my invention, I propose to so combine a number of these sets or punches as to avoid this undesirable loss of time and patience, and adapt the one set to serve for the heads of nails of various sizes. To this end I therefore form or arrange upon the shank 1 near its upper end the head 4. This head consists of a series of radially disposed tapered nail sets, 5, the same being of different diameters and therefore being adapted for operation on the heads of nails of various sizes. Diametrically opposite each nail-set 5, is an impact-head 6, to receive the blows of the hammer. I have merely illustrated the head as having two nail-sets and impact-heads, but it will be obvious that as many as may be desired can be employed.

By the invention as disclosed it will be seen that I have produced a combination nail-set, the same being adapted to operate upon the heads of nails of various sizes. In operation, the shank or body-portion 1 serves as the handle and a most convenient manipulation is secured.

Various means may be adapted for associating the shank 1 and head 4, in that, as stated, they may be formed integral, or as shown, the head may be slipped over the upper end of the shank, for the reception of which the head is provided with an opening 7, corresponding with the shank, and a pin or rivet 8, passed through the head and shank. These details however are of minor importance and to such I do not wish to be understood as limiting my invention.

Having described my invention, what I claim is—

1. The herein described combination-tool, consisting of the shank terminating at its lower end in a nail-set, and the head located on the shank between the ends of the latter and having the series of radial nail-sets of different sizes and radially opposite the same the impact-heads said sets and heads being in the same transverse plane, substantially as specified.

2. The herein described combination-tool, consisting of the shank or body-portion 1, terminating at its lower end in the nail-set 2,

and its upper end in the impact-head 2, the
separate head 4, having a central opening re-
ceiving and fitting the shank 1, and provided
with a series of nail-sets 5, of different sizes,
5 and diametrically opposite the same the im-
pact-heads 6, and the rivet passed through the
head and shank, substantially as specified.

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

JOHN DOWLING.

Witnesses:

R. P. PARK,
W. H. NICHOLSON.