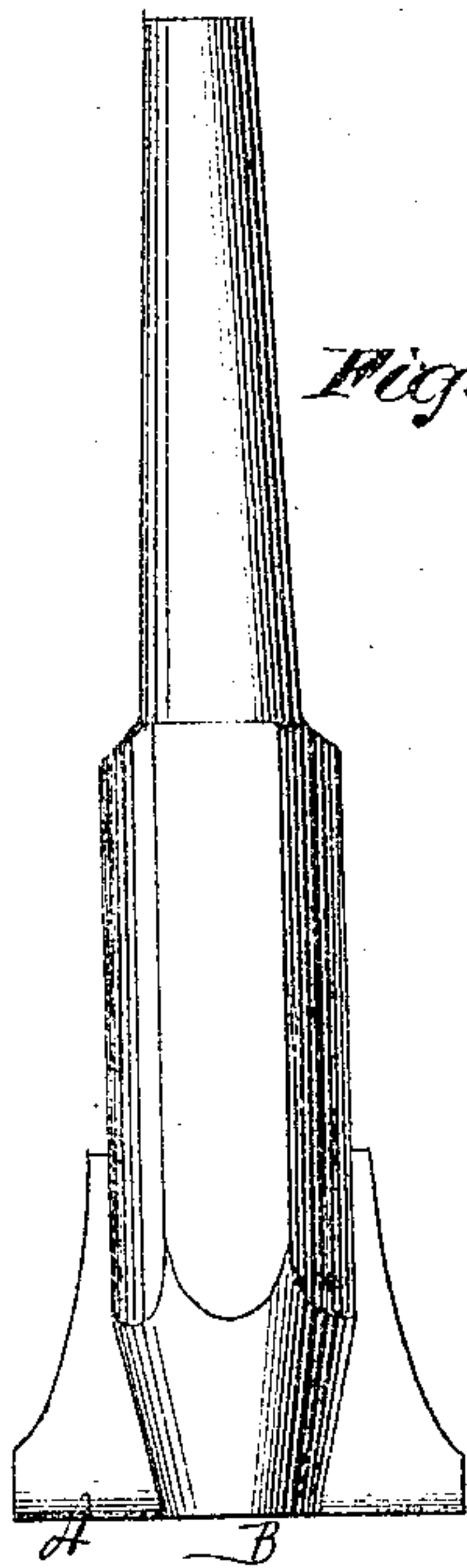


*N.H. Robinson,*

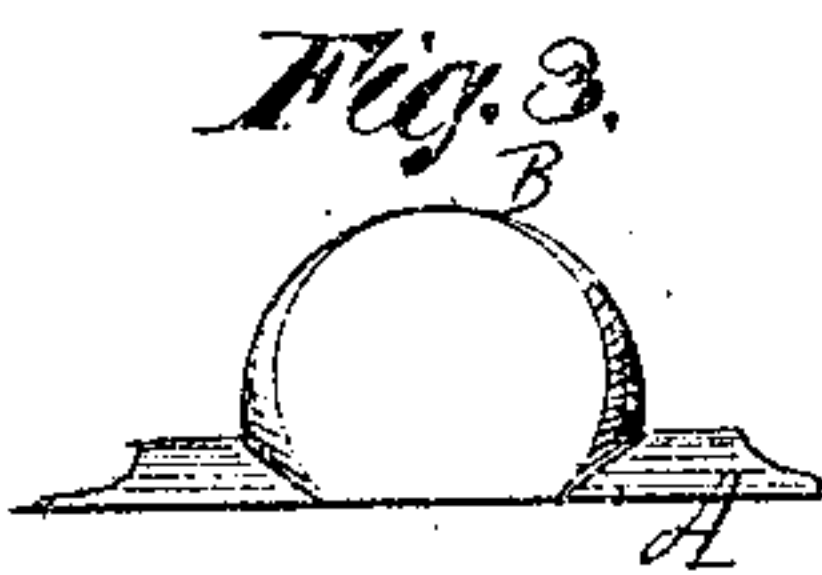
*Dovetailing Machine.*

*No. 103659.*

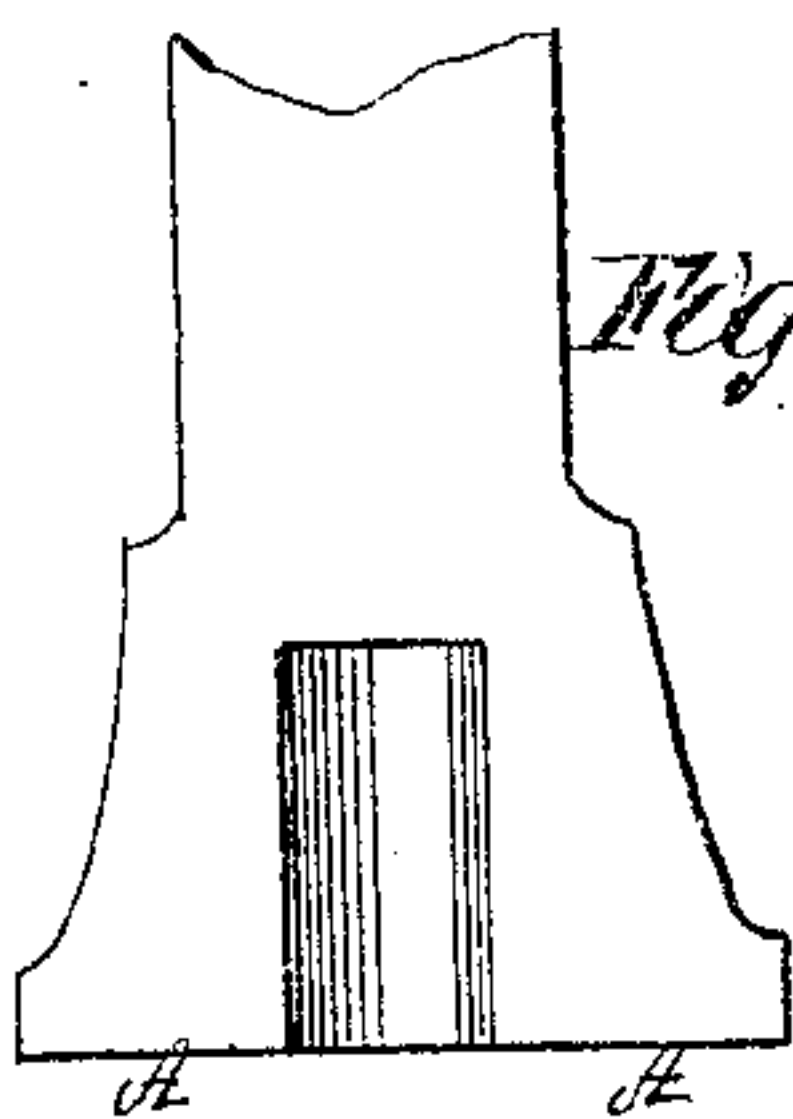
*Patented May 31. 1870.*



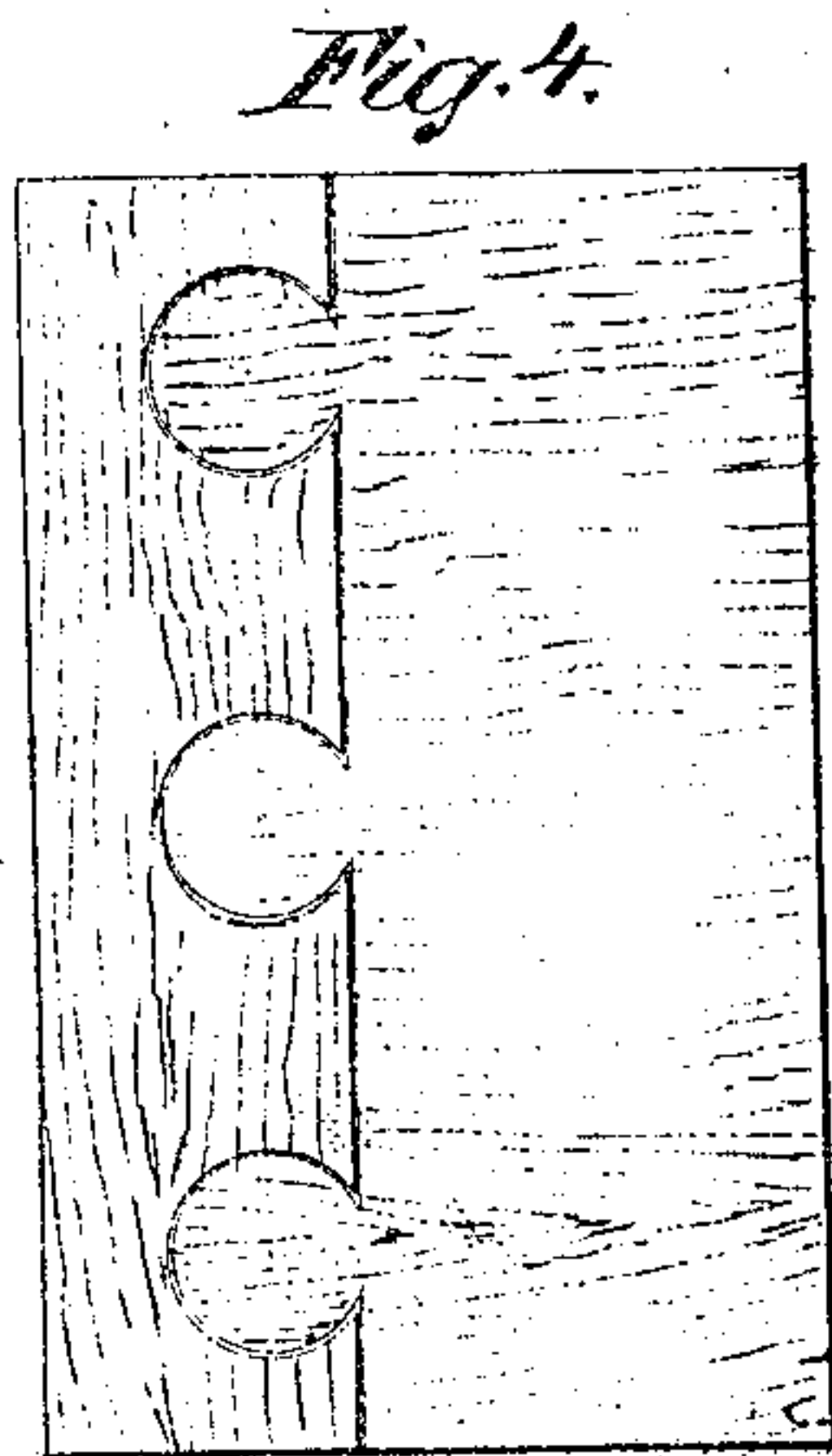
*Fig. 1*



*Fig. 3.*



*Fig. 2*



*Fig. 4.*

Witnesses:  
*John Becker.*  
*Geo. E. Brooks*

Inventor:  
*N. H. Robinson*  
PER *Wm. M. D.*  
Attorneys.

# United States Patent Office.

NEWTON H. ROBINSON, OF OWASSO, MICHIGAN.

*Letters Patent No. 103,659, dated May 31, 1870.*

## IMPROVEMENT IN DOVETAILING-CHISEL.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, NEWTON H. ROBINSON, of Owasso, in the county of Shiawassee and State of Michigan, have invented certain new and useful Improvements in Dovetailing-Tools; and do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a front elevation of my device.

Figure 2 is a rear elevation of the same.

Figure 3 is a plan view of the cutting-edge of the tool, and

Figure 4 shows the style of joint formed.

Letters of like name and kind refer to like parts in each of the figures.

My invention has for its object the production of "dovetail" joints for drawers, boxes, &c., without laying out the work, as is usually done; and to this end

It consists in the peculiar shape of the chisel used for cutting the tenons, as is hereinafter set forth.

The joint produced by my device has a round tenon fitting into a corresponding mortise, said mortise being formed by means of an auger or bit, while the tenon is usually cut by means of an ordinary hand chisel, although a tool especially designed for this purpose, and cutting one-half each of two tenons, and the intermediate space between the same, has been employed.

Both of the above-named methods of forming the tenons are, however, open to serious objections; the first, because of its want of accuracy and the length of time required, and the last method, by reason of the difficulty experienced in completing a tenon that has been cut upon one side, the tendency of the same being to spring away from the chisel, and thus render said tenon one-sided and inaccurate.

These objections are removed by my device, which, as shown in the drawing, consists of a chisel having a straight face, A, for cutting the shoulders, and of a circular portion, B, for cutting the tenons, said face being slotted or divided vertically at its points of intersection with said circular portion, so as to leave a space for the neck of the tenon.

As thus formed, the chisel is placed within an ordinary mortising machine, and operated in the usual manner, each downward cut making one complete tenon, without other laying out of the work than the striking of a line for the shoulders, and indicating by a mark the relative positions of the tenons, and even such slight guide-marks may be dispensed with by the use of suitable gauges attached to the bed of the mortising-machine.

Upon completion of the tenons, it only remains to form corresponding mortises in the opposite part of the joint by means of an ordinary auger or bit.

It will be seen that by this method of forming a joint, boxes, drawers, &c., may be secured together with great rapidity, and that, when completed, said articles will possess all the strength and offer all the resistance to lateral pressure that would be possible if constructed with the angular dovetail.

Having thus set forth the nature and merits of my invention,

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

The hereinbefore described dovetailing-tool, provided with the straight and circular cutting-faces A and B, respectively, as is shown and set forth.

N. H. ROBINSON.

Witnesses:

GEO. W. LORING,

J. L. QUACKENBUSH.