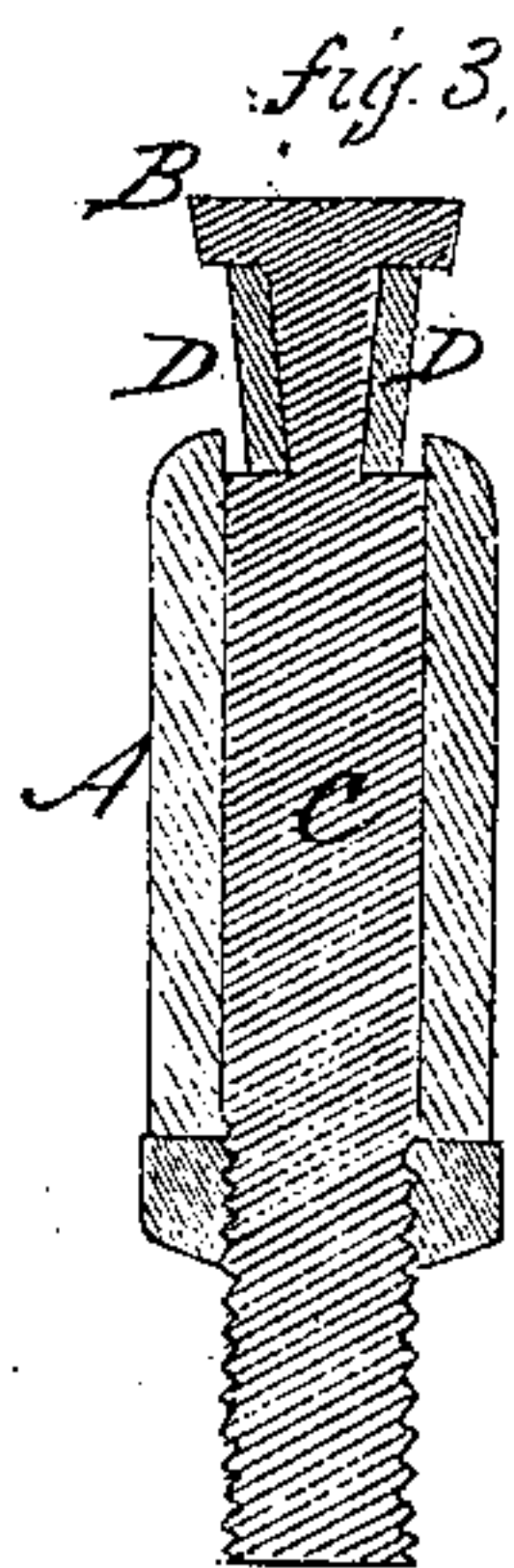
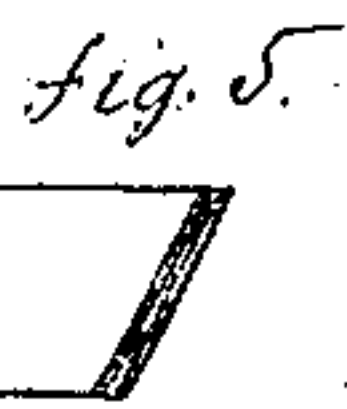
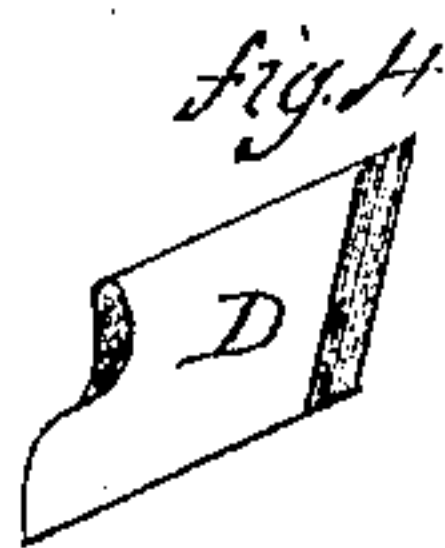
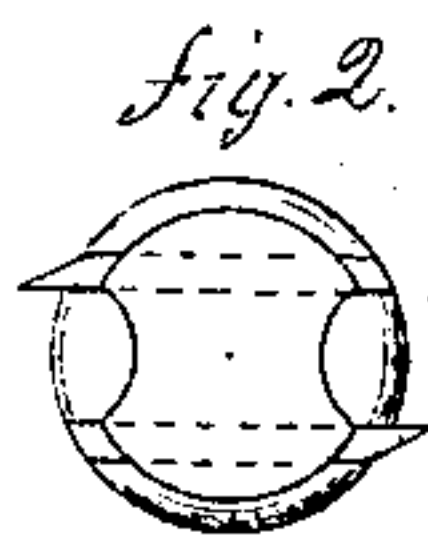


*W. Jordan,
Cutter Head.*

No. 103750.

Patented May 31, 1870.



*Witness
J. H. Shumway
a. j. Tibbitts*

*Witness Jordan
Assignor to A. S. of. Gear & Co.
Inventors
By Attorney
John E. Earle*

United States Patent Office.

DEDRICK JORDAN, OF CHARLESTOWN, MASSACHUSETTS, ASSIGNOR TO A.
S. AND J. GEAR & CO., OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 103,750, dated May 31, 1870.

IMPROVEMENT IN CUTTERS FOR DOVETAILING-MACHINES.

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, DEDRICK JORDAN, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented a new improvement in Cutters for Dovetailing-Machine; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent in—

Figure 1, a side view;

Figure 2, an end view of the cutter-head;

Figure 3, a vertical central section; and in

Figure 4, the cutter detached.

This invention relates to an improvement in the construction and arrangement of the cutters for dovetailing machines, the object being to arrange the cutter so as to get an extended cutter whereby it may be more perfectly secured; and

The invention consists in arranging the cutter upon a seat inclined to the axis of the cutter-head, and a clamping device passing through the cutter-head, so as to draw down upon the edge of the cutter, the inclined seat giving a long bearing to the lower edge of the cutter.

A is the cutter-head, which is bored out so as to pass on over a spindle, C, the said spindle provided with a head, B.

D is the cutter or cutters, one of which is shown in fig. 4.

The seat is formed in the head A, as denoted by

the broken line, fig. 1, inclined to the axis of the said head, and the bearing of the head B is made parallel thereto. In consequence of this inclined seat the shape of the cutter is such that a long bearing is attained upon the lower edge.

The advantage of this cutter over the common straight cutter, in addition to an increased bearing, is, that where the seat is at right angles with the axis the cutter must be of the shape denoted in Figure 5, giving but a very slight bearing upon the lower edge, and that wears away so rapidly by the grinding of the cutter that new cutters must be constantly supplied, whereas in my invention the lower bearing is the longest in the beginning, and may be worn until the bearing is reduced to as slight an extent as a straight cutter. Hence, while the cutters cost no more, they will last very much longer.

The cutters are set into their seat in the head A below their head B, and bound in place by forcing the head A up by means of the spindle through and out below the head.

I claim as my invention—

The herein described cutter-head for dovetailing machines, having the cutter arranged so as to be fixed upon an inclined bearing in the head, in the manner described.

DEDRICK JORDAN.

Witnesses:

EDWIN W. BROWN,

ALBERT W. BROWN.