

W. G. Farmer,
Cutter Head,
No 82,699, Patented Oct. 6, 1868.

Fig 1.

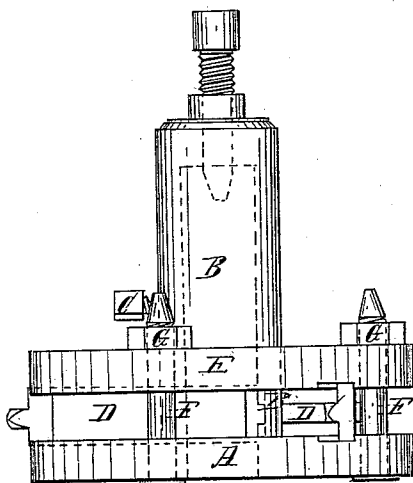


Fig 2.

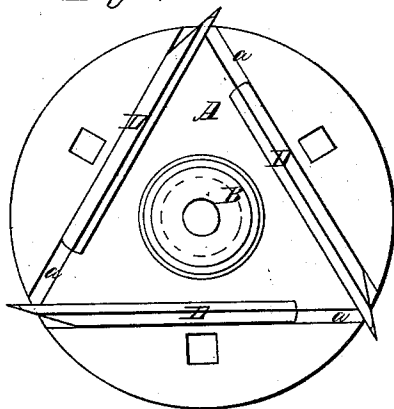
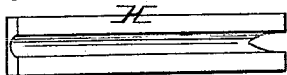


Fig 3.



Witnesses,
Harry King
Leopold Greif

Inventor.
W. G. Farmer
per
Alexander Mason
Atty.

United States Patent Office.

W. G. FARMER, OF BURLINGTON, VERMONT.

Letters Patent No. 82,699, dated October 6, 1868.

IMPROVEMENT IN CUTTER-HEADS.

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, W. G. FARMER, of Burlington, in the county of Chittenden, and in the State of Vermont, have invented certain new and useful Improvements in Matcher-Heads and Knives; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction of knives for cutting tongues and grooves, and a matcher-head, in which the said knives are placed.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a side view,

Figure 2 plan view of the lower plate of the matcher-head, and

Figure 3 side view of a knife for cutting tongues.

A represents a circular plate or block, in the centre of which is a collar. B. In this collar the shaft for turning the matcher-head is inserted, and secured by the screw C.

The upper side of the plate A is provided with three straight grooves, *a a*, forming a triangle, as shown in fig. 2.

In these grooves the knives D D are placed, and similar grooves in the upper movable block, E, hold them firmly in proper position when the two plates are joined together. The block or plate E is also of circular form, and provided through its centre with a hole, so that it can slip around the collar B.

Screw-bolts, F F, and nuts, G G, hold the two plates A and E firmly together, preventing the knives from moving.

The knives D D, for cutting grooves, are made of steel, and consist of bars, with a straight flange or projection, of the same size as the groove required, running along the centre of said bar.

One end of the bar, including the flange or projection, is bevelled, as seen in fig. 2, so as to leave the flange with a sharp-pointed edge, and the top of the said flange or projection is grooved, so as to form sharp cutting-edges.

The knives H, fig. 3, to cut the tongue, are made of similar bars of steel, but instead of a flange or projection, they are provided with a groove, having sharp cutting-edges, and the groove to be of such size as the tongue desired.

The knives H H may be placed in the same matcher-head as the knives G G, if of the same thickness, but if of different thickness, a similarly-constructed matcher-head, with grooves to suit, is substituted.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The circular grooved plate A, provided with a collar, B, and movable grooved plate E, in combination with the knives D D and H H, all constructed as described, and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 4th day of August, 1868.

W. G. FARMER.

Witnesses:

T. E. WALES,

RUSSELL S. TAFT.