

O. LINDBLAD.
CUTTER-HEAD.

No. 189,865.

Patented April 24, 1877.

Fig. 1.

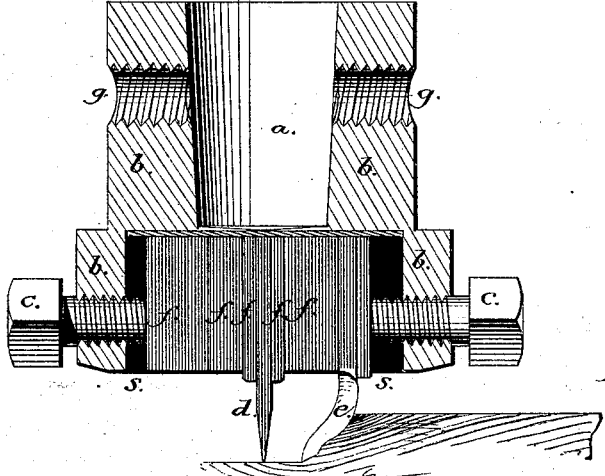


Fig. 3.



Fig. 4.

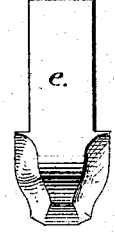


Fig. 2.

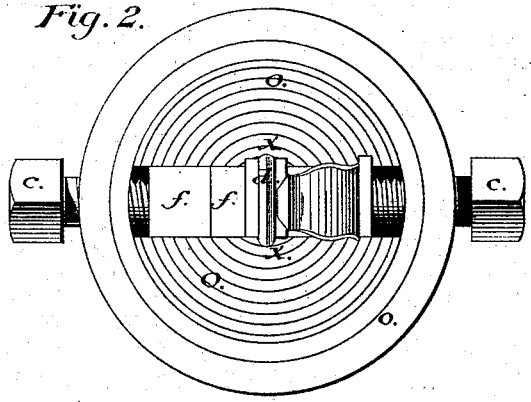
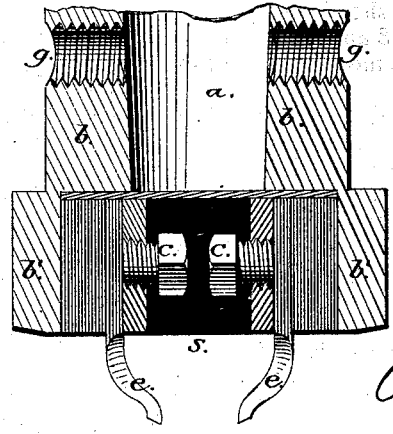


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN CUTTER-HEADS.

Specification forming part of Letters Patent No. 189,865, dated April 24, 1877; application filed February 10, 1877.

To all whom it may concern:

Be it known that I, OLOF LINDBLAD, of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Cutter-Heads; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to so construct a cutter-head for holding molding-machine cutters that the same knives or cutters may be adjusted at different distances from the center, so that any desired size of surface molding or paneling may be done with the same cutters.

The nature of my invention consists in the combination of devices employed, as will be hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a sectional view of my improved cutter-head. Fig. 2 is an end view, showing the rings by which the cutters are set. Figs. 3 and 4 show the cutters for the same; Fig. 5, modification in section for edge-molding.

b is a cylindrical head, having the shoulder *b'* on its lower part, and provided in its upper portion with the threaded apertures *g g*, through which set-screws are passed for securing it to an arbor or spindle, *a*. *S* represents a transverse slot in the face of the head, for receiving the cutters *e e* (which may be of any desired form) at the middle of the slot *S*. A narrow vertical slot, *x*, is formed in the face of the head, which receives the shank of a

center cutter, *d*, said shanks being wide enough to fit in the slot *x*, the object of which is to keep it exactly in the center without the trouble of setting it. A series of metallic blanks, *f f f f*, of equal width and length, and of any desired thickness, are inserted in the remaining portions of the slot *S*. The pieces *f f f f* are made interchangeable, for the purpose of adjusting the cutters for making different-sized moldings without any additional cutters. Upon the face of head *b* a series of concentric lines, *o*, are formed, so that two of the cutters can be set at equal distances from the center without measuring; or in cutting deep moldings one may be set deeper than the other, or adjusted as desired.

By making the metallic pieces wedge-shaped the cutters may be given any desired angle; and by making one edge thicker than the other, the cutters can be turned outward, so as to cut free and feed fast.

The pieces *f f f* and the cutters *d e e* are held firmly in position by set-screws *c c* working through threaded apertures in the shoulders *b' b'* of the head *b*.

I claim—

The combination of the cylindrical head *b*, having shoulder *b'*, threaded apertures *g g*, the transverse slot *S*, and vertical slot *x* with the cutters *d e e*, metallic pieces *f f f*, and set-screws *c c*, all constructed to operate as shown and described, and for the purpose set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

OLOF LINDBLAD.

Witnesses:

MILO HARRIS,
T. S. BLY.