M. BUCK.

CUTTER-HEADS.

No. 180,320. Patented July 25, 1876.

Fig. 1.

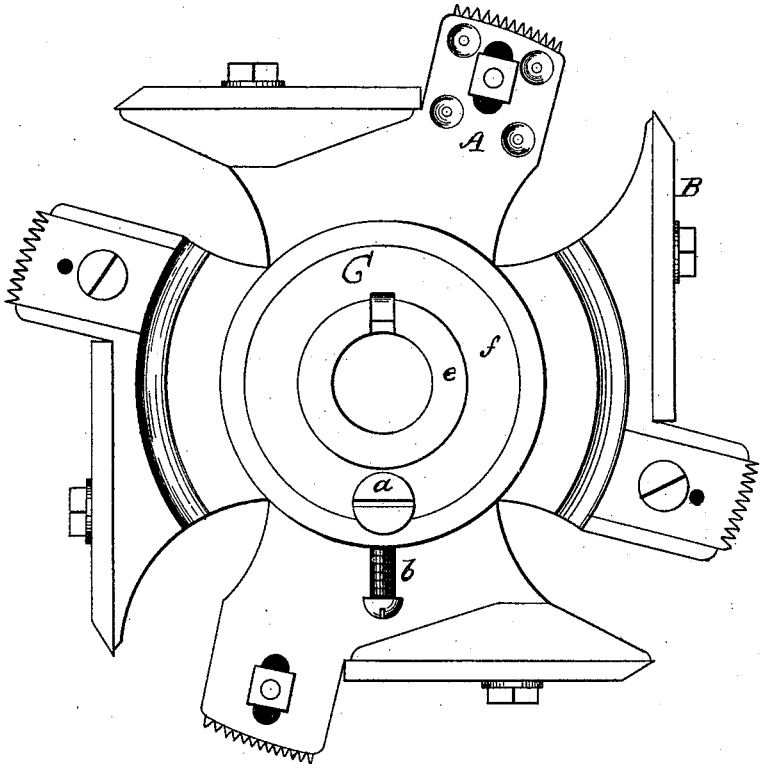
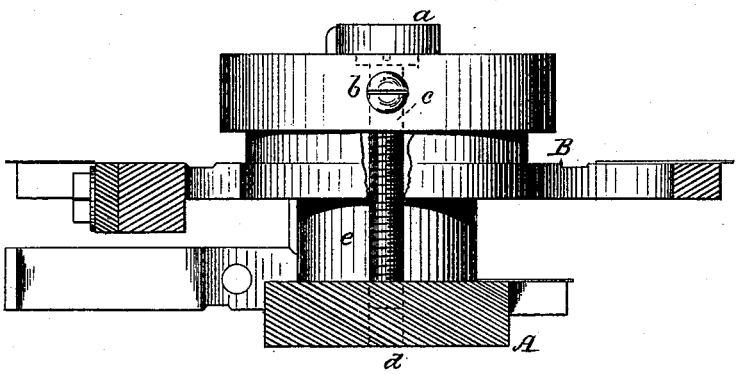


Fig. 2



WITNESSES

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MARTIN BUCK, OF LEBANON, NEW HAMPSHIRE.

IMPROVEMENT IN CUTTER-HEADS.

Specification forming part of Letters Patent No. **180,320**, dated July 25, 1876; application filed July 19, 1876.

To all whom it may concern:

Be it known that I, MARTIN BUCK, of Lebanon, in the county of Grafton and State of New Hampshire, have invented certain Improvements in Cutter-Heads, of which the following is a specification:

My invention relates to cutter-heads of machines for cutting grooves, slots, or mortises, and it consists in a novel construction, combination, and arrangement of parts, the object of which is to render the cutter-head readily and easily adjustable or expansible for cutting grooves, slots, or mortises of different widths, as will hereafter be fully set forth.

Figure 1 is a front view of the cutter-head. Fig. 2 is a side elevation, partly in section, showing the manner of adjusting the two parts of the cutter-head.

The cutter-head is constructed in two parts, each carrying a convenient number of cutters and scorers, the cutter-head being revolved by a shaft, not shown. The adjustment is accomplished by means of a long screw passing through the hub of one part of the cutter-head, and entering a suitable hole or nut tapped in the other. The said screw is held fast by a set-screw when the desired distance between the two parts of the cutter-head is ascertained. All of the parts of the cutter-head do not need description here, as they are mainly the same as shown in Letters Patent granted to me April 27, 1875, No. 162,526.

A represents the rear part of the cutter-head. B represents the front part. C is the hub of the front part B. The rear portion has a central tubular-shaped projection, *e*, which enters a correspondingly-shaped recess, *f*, in the front part B of the cutter-head, thus allowing the two parts to slide to or from each other. In the hub of the front part B is formed a hole, *c*, for the passage of the longitudinal screw *a*, said screw passing entirely through the hub of the front part of the cutter-head and entering a hole or nut tapped in the rear part A. In the hub of part B there is placed a set-screw, *b*, at right angles to the longitudinal screw *a*, for the purpose of holding the latter fast in place when the desired adjustment is made.

It is seen from the foregoing that the two portions of the cutter-head may be moved to or from each other and held fast at the wished-for place of adjustment by means of the longitudinal screw *a* and the set-screw *b*.

I have shown the screw *a* as entering the hub of the front part B of the cutter-head, but the said screw may be inserted in the rear part A with the same results, as will be seen from an inspection of the model.

I claim as my invention—

1. The combination of the two parts A and and B with the longitudinally-moving adjusting-screw *a*, substantially as and for the purpose specified.

2. The combination of the part A, having the tubular spindle *e*, with the part B, having the hub C, the adjusting-screw *a*, and the setting device for the screw *a*, substantially as and for the purpose specified.

MARTIN BUCK.

Witnesses:
M. M. LISCOMB,
C. H. CLOUGH.