R. ALDRICH. FLOCK GRINDER.

No. 104,813. Patented June 28, 1870.

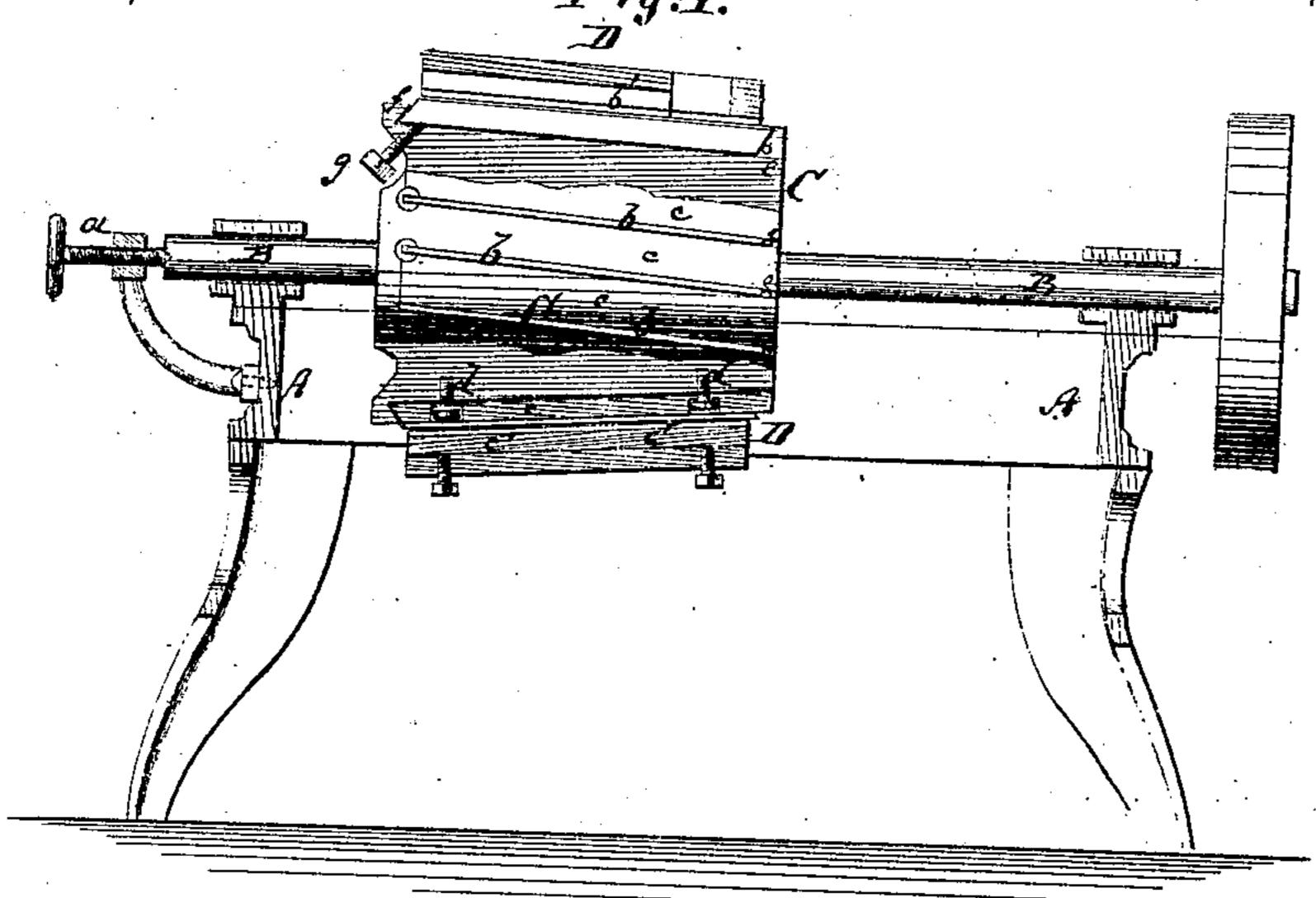
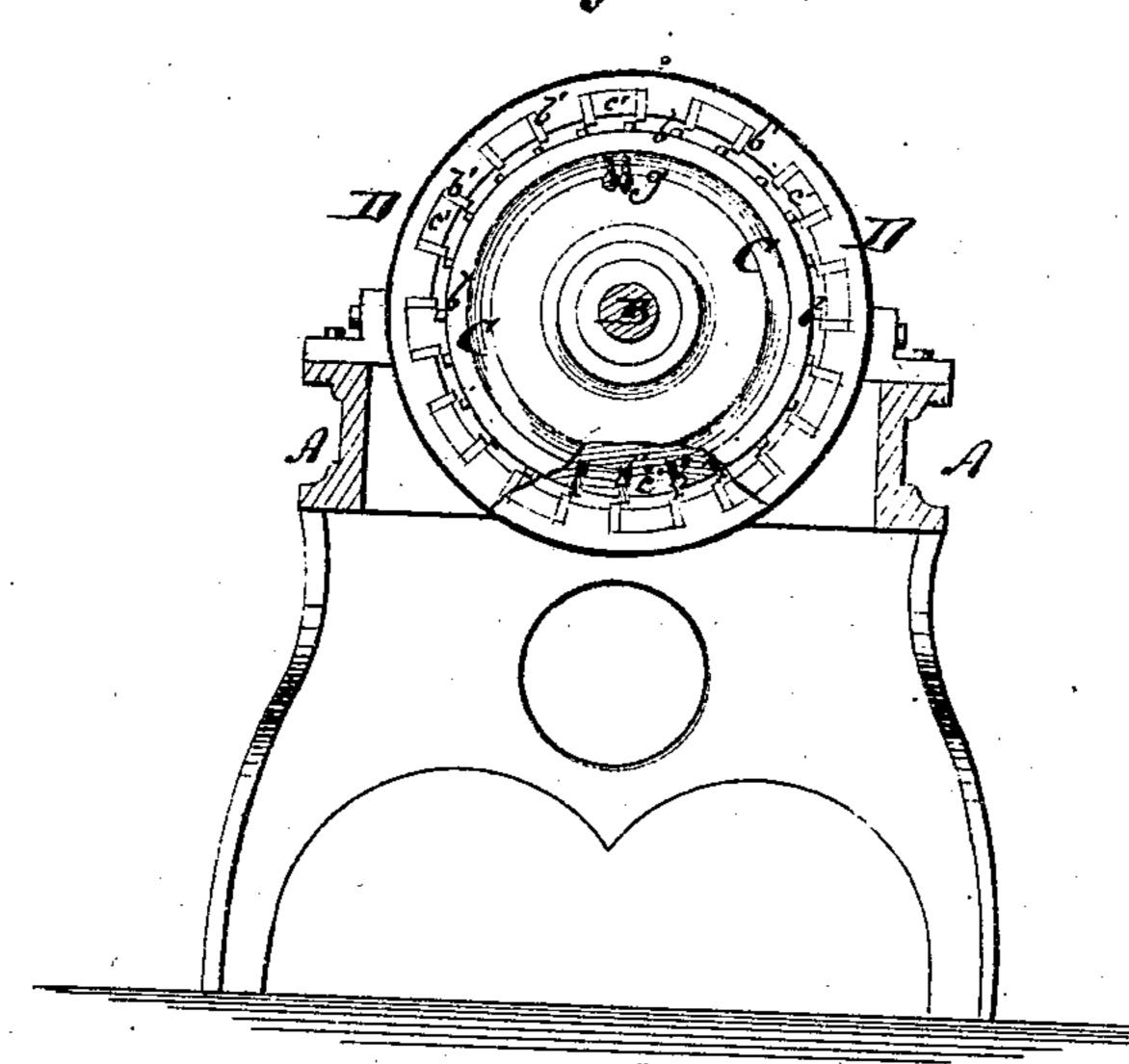


Fig. 2.



Witnesses:

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ROBERT ALDRICH, OF FORESTDALE, RHODE ISLAND, ASSIGNOR TO HIM-SELF AND E. D. WILCOX, OF MILLVILLE, MASSACHUSETTS.

Letters Patent No. 104,813, dated June 28, 1870.

IMPROVED FLOCK-GRINDER.

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, ROBERT ALDRICH, of Forest-dale, in the county of Providence and State of Rhode Island, have invented a new and improved Flock-Grinder; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side elevation, partly in sec-

tion, of my improved flock-grinder.

Figure 2 is an end view of the same.

Similar letters of reference indicate corresponding

parts.

This invention relates to a new construction of flock-grinder, and, more particularly, to a new method of securing the knives in the grinding-surfaces, with a view of adjusting the same to different kinds of work, and to provide for wear by the operation of grinding.

The invention consists in a new method of securing the knives in the grooved cones by means of removable wedges, and of making the same adjustable by means of set-screws and fixed pins, as hereinafter

more fully described.

A, in the drawing, represents the

A, in the drawing, represents the frame of my improved flock-grinder.

On it are arranged the bearings of a horizontal shaft, B, which carries the conical inner grinder C.

The said inner grinder is arranged to revolve within the stationary outer grinder or shell D, which is also of conical form, as is clearly shown in fig. 1.

The shaft B is longitudinally adjustable in the shell by means of a screw, a, so that the grinding-surfaces may thereby be set closer together or further apart.

The face of the cone C is provided with grooves,

which extend from end to end, being cut somewhat spirally or obliquely along the surface. Into each groove are placed two knives, b b, which rest against the sides of said groove, and are held in place by a wedge-shaped block, c.

This block is secured to the cone by means of screws, d d, or otherwise, and fills the groove between the

knives b, to hold the latter in place.

The front end of each knife b is beveled, as in fig. 1, and rests with the beveled edge on a stud, e, that projects from the inner face of the groove.

The rear end of the knife is also beveled, and fits

under a slanting shoulder, f.

A screw, g, fitted into the rear or large part of the cone, serves to adjust the knife vertically, by sliding it forward in the groove. The knife can thus be adjusted so as to provide for wear at the edge.

The inner surface of the shell D is grooved, in the same way as the outer side of the cone, and provided with knives b', blocks c', studs e', and adjusting-screws, substantially in the same manner as said cone.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent-

1. The grinding-cone and shell C D, provided with grooves, in which the knives are, in pairs, secured by wedge-shaped blocks, substantially as herein shown and described.

2. The study e, applied to the cone C, in combination with the screws g, for the purpose of holding and adjusting the knives, as set forth.

ROBERT ALDRICH.

Witnesses:

PRILIP D. HALE, STEPHEN S. COMSTOCK.