

E. Myers.

Planing Machine.

Nº 71403

Patented Nov. 26, 1867.

Fig. 2

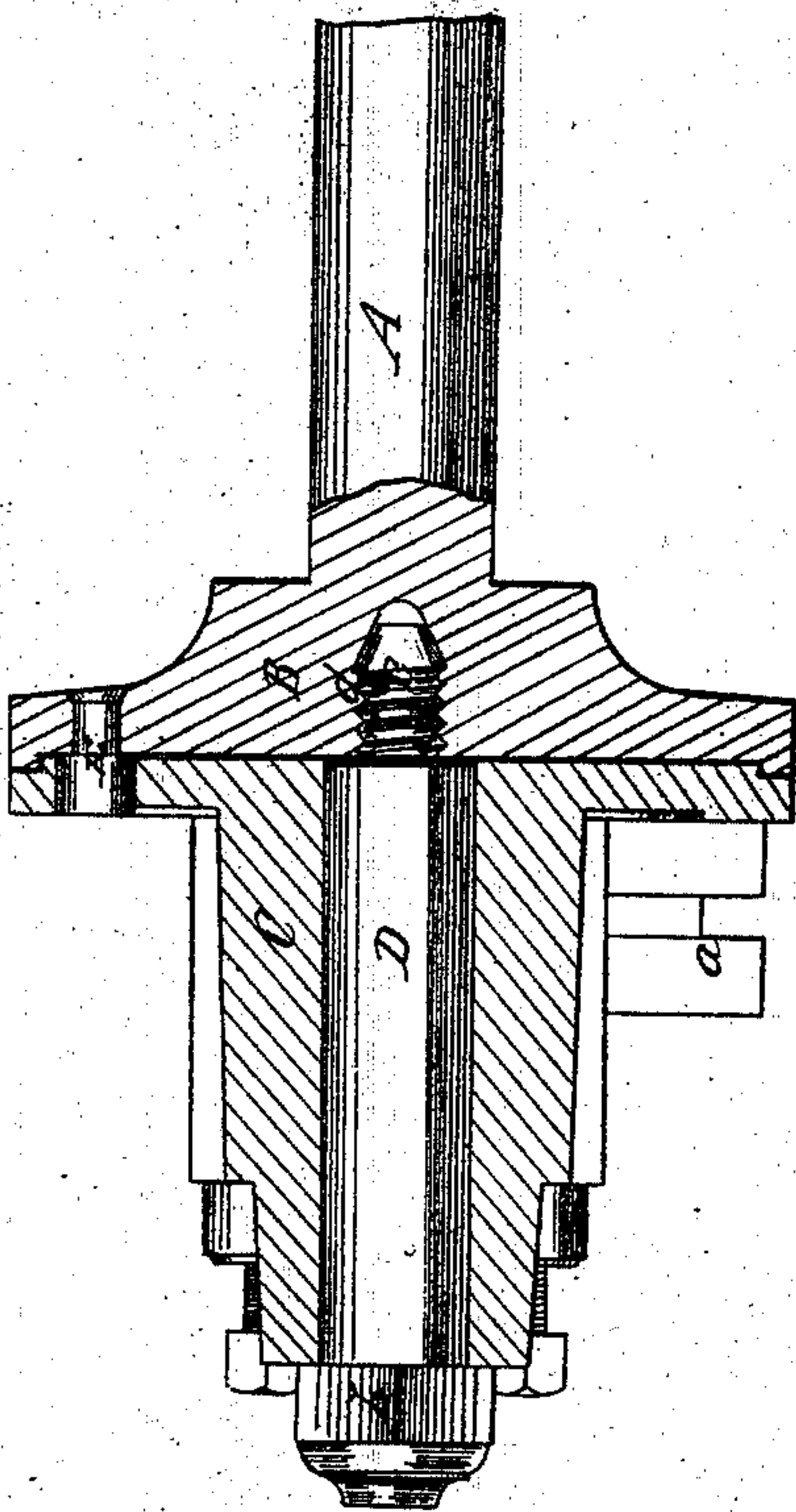
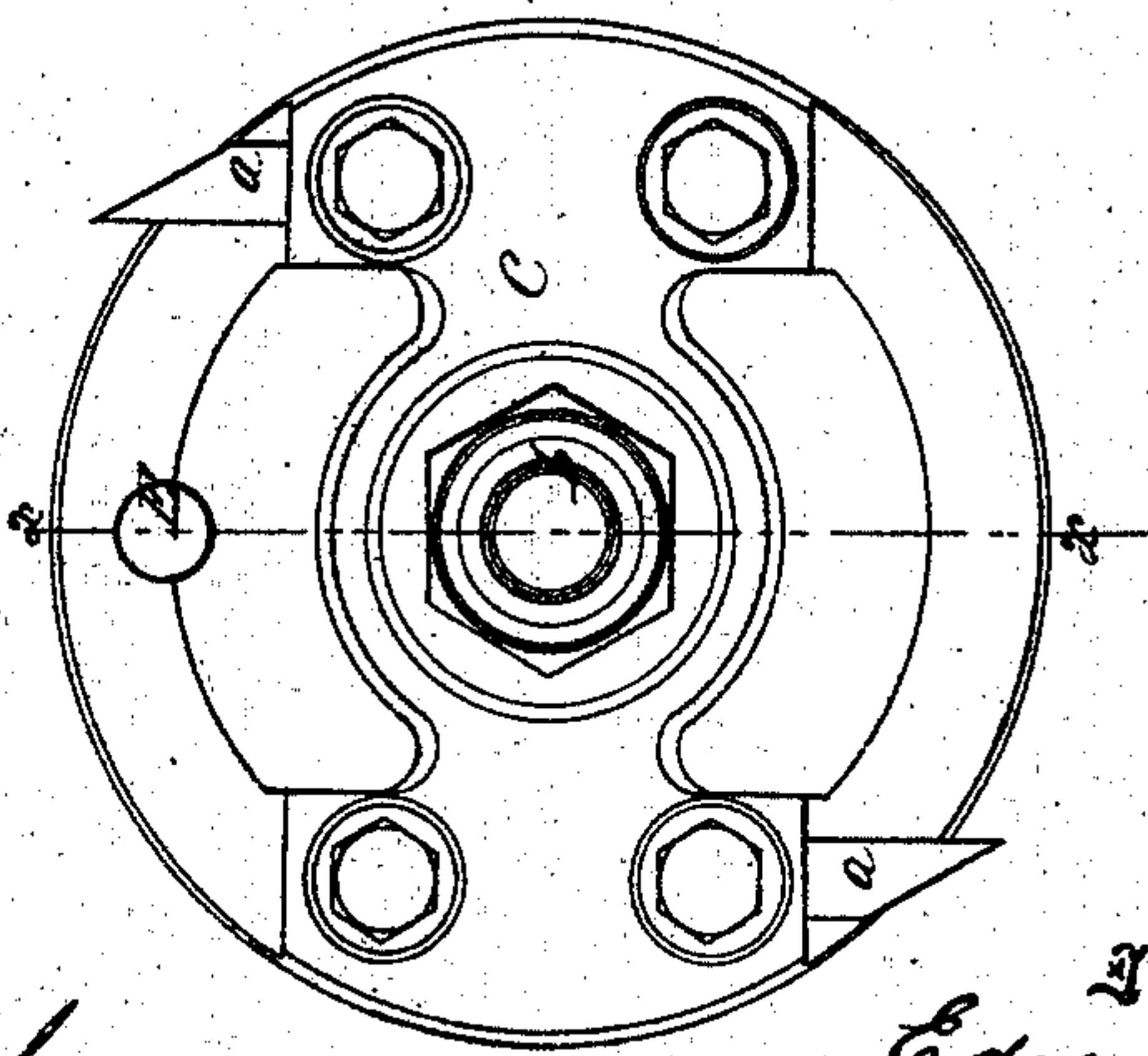


Fig. 1



Witnesses.
Thos. Tuck
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Inventor.
E. Myers
Per [Signature] Attorney

United States Patent Office.

EDWARD MYERS, OF CINCINNATI, OHIO, ASSIGNOR TO LANE & BODLEY,
OF SAME PLACE.

Letters Patent No. 71,403, dated November 26, 1867.

IMPROVEMENT IN PLANING-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, EDWARD MYERS, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and improved Manner of Attaching Matcher-Heads to their Mandrels; 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 drawings, forming part of this specification, in which—

Figure 1 is an end view of a matcher-head attached to its mandrel according to my invention.

Figure 2 is a longitudinal section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

The object of this invention is to attach a matcher-head to its mandrel in such a manner that it may be applied and detached with the greatest facility, so that when it is desired to use the entire width of the machine for planing or surfacing, the matcher head may be detached without any trouble or difficulty whatever, the mandrel remaining fixed or stationary. The ordinary plan is to remove the matcher-head by taking its mandrel out of its bearings, or by having the bearings in one casting, and lowering all out of the way by means of screws or other mechanism.

A represents the mandrel of the matcher-head, which is provided with a collar, B, the latter being permanently secured on the former. C represents the matcher-head, which may be of the usual form, with ordinary cutters, *a*, attached to it. The collar B is on one end of the mandrel A, and is equal in diameter to the inner end of the matcher-head C, the latter abutting against the former. D is a rod of cylindrical form, having a head, *b*, at one end, and a screw, *c*, at the opposite end. This rod D passes centrally through the matcher-head, the screw *c* fitting in a female screw, *d*, in the centre of the collar B, and in line with the centre of the mandrel A, as shown in fig. 2. This screw-rod secures the matcher-head to the mandrel, preventing any longitudinal movement of the former, and a pin, E, which passes through the inner part of the matcher-head into the collar B, prevents the matcher-head from turning independent of the mandrel. This pin E is riveted or otherwise firmly secured in the collar, and a hole is made in the matcher-head, so that the pin may pass freely into it.

From the above description it will be seen that by simply unscrewing the rod D, the matcher-head may be detached from the mandrel, and the trouble and inconvenience of detaching or removing the mandrel or adjusting it in any way, when the matcher-head is not required for use, avoided.

This invention relates particularly to the method of securing matcher-heads to their mandrels, and I therefore disclaim attaching circular saws upon their mandrels; but

What I claim as new, and desire to secure by Letters Patent, is—

The method herein described of attaching the matcher-head C to its mandrel by means of the screw-rod D passing centrally through the said matcher-head, and screwed into the collar B, one of whose ends is provided with the pin E fitting into the inner part of the said matcher-head, substantially as set forth.

EDWARD MYERS.

Witnesses:

GEO. W. COMANY,
BENJ. C. TRUE.