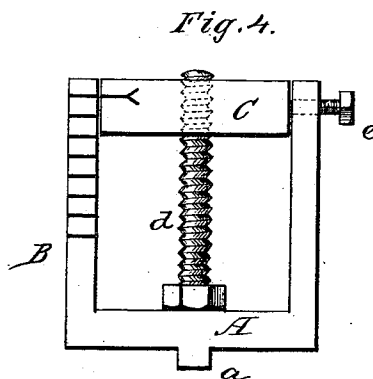
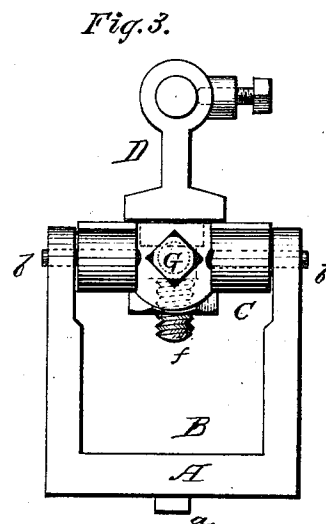
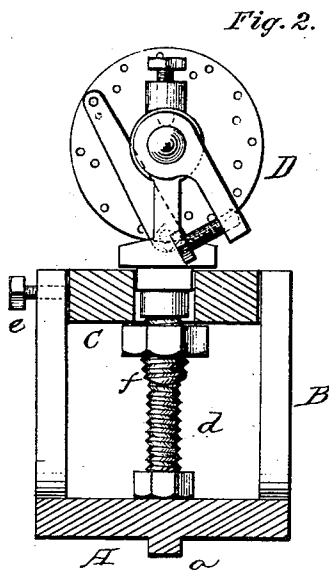
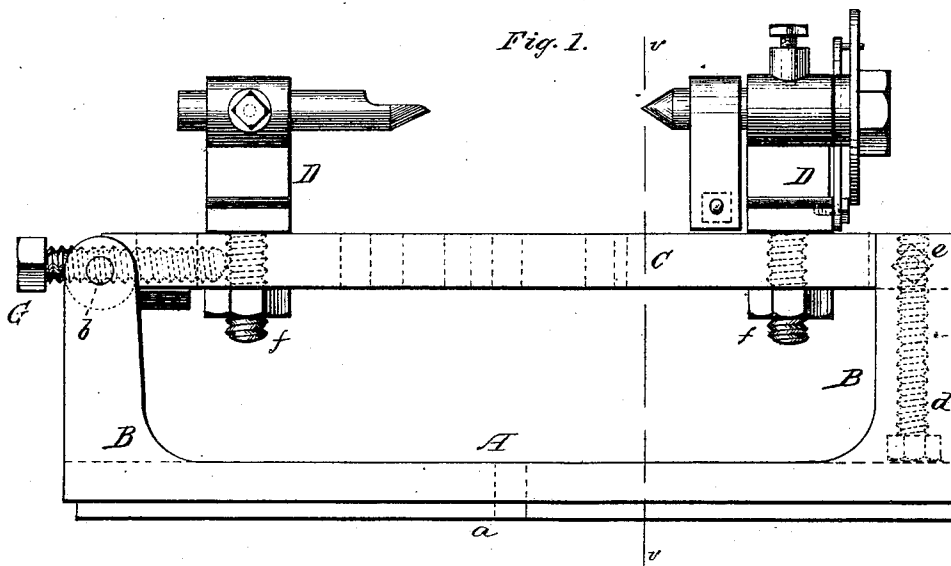


G. V. SEAVER.
Planing-Chuck.

No. 167,572.

Patented Sept. 7, 1875.



WITNESSES:
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H. C. McArthur.

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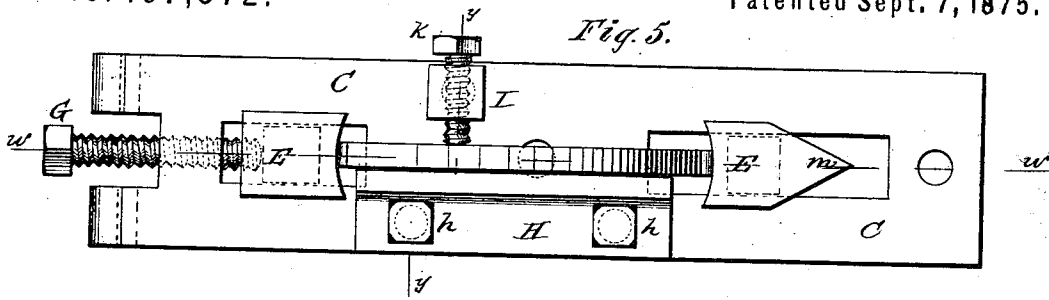


Fig. 6.

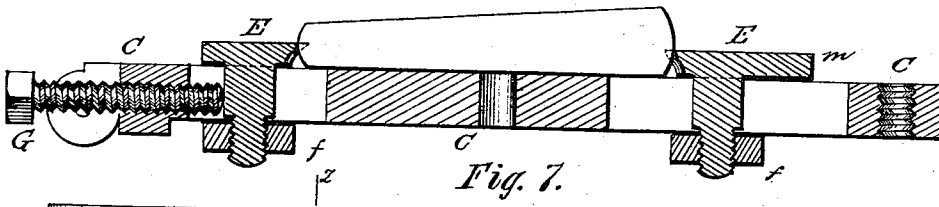


Fig. 7.

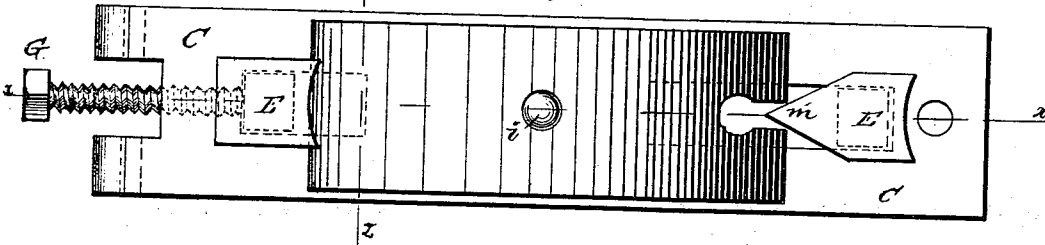


Fig. 8.

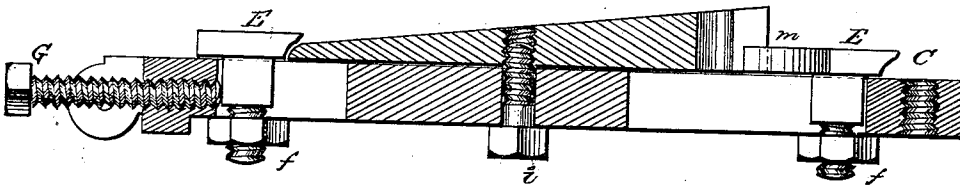


Fig. 9.

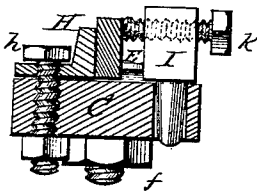
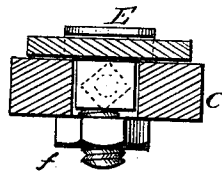


Fig. 10.



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UNITED STATES PATENT OFFICE

GEORGE V. SEAVER, OF HUNTINGTON, WEST VIRGINIA.

IMPROVEMENT IN PLANING-CHUCKS.

Specification forming part of Letters Patent No. **167,572**, dated September 7, 1875; application filed July 30, 1875.

To all whom it may concern:

Be it known that I, GEO. V. SEAVER, of Huntington, in the county of Cabell and State of West Virginia, have invented certain new and useful Improvements in Planing-Chucks; and I 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, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a universal planer-chuck for planing locomotive-wedges, keys, &c., with a center attachment for fluting taps, &c., as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a side elevation of my invention with the center attachment. Fig. 2 is a cross-section, and Figs. 3 and 4 end views, of the same. Fig. 5 is a plan view, and Fig. 6 a longitudinal section, of the top plate of my invention when used for planing locomotive-keys. Figs. 7 and 8 are similar views, showing it when used for planing wedges. Figs. 9 and 10 are detached views of certain parts thereof.

A represents the main frame of the chuck, planed on the bottom with a tongue, *a*, to fit a groove in the planer-table, and the frame fastened thereto by one or more bolts. At each end of the frame A are two upright guides, B B, between which the top plate C is placed, it being held at one end by taper pins *b b*, to form a hinge or pivots on which said top plate may be raised or lowered to plane work parallel or tapering. At the other end the top plate is raised or lowered by a long set-screw, *d*, as the work may require. In one of the guides at that end of the machine is a set-screw, *e*, with blank end to enter a hole in the edge of the top plate, to hold the same in a parallel position with the plane-table. On the same end of the top plate and upright guide is a graduating-scale, to set the plate at different angles to the table.

The top plate C is fitted up with slots and holes for the different attachments, for doing the different kinds of work, as follows:

For fluting taps, reamers, and other like work, the center attachments D D are placed in the slots on the top plate and tightened

down thereto by nuts *f* underneath, as shown in Fig. 1.

For planing locomotive stationary keys, gibbs, and other like work, sliding steel dogs E E, with square shanks, are placed in the slots on the plate C, and fastened by the nuts *f*, and a long set-screw, G, in the back end of the top plate is used to tighten the dog up against the work to be held, as shown in Figs. 5 and 6.

To plane the edges of the keys, &c., angle-irons H are fastened to top plate with two bolts, *h*, and a square stud, I, with round shank, is fastened in the plate opposite the angle-iron. A set-screw, *k*, is passed through this stud to fasten the key against the angle-iron.

To plane locomotive or other wedges, the wedge has a hole tapped out in the center and is held to the top plate by means of a set-screw, *i*, passing through the plate into said hole. The top plate is raised or lowered to suit any required taper. A V-point, *m*, on one of the sliding dogs E is entered into a slot in the thick end of the wedge, to hold the same from moving or turning while planing.

By the use of this device wedges and keys can be planed in short time and duplicated without any laying out or measuring; and it also furnishes, at a small cost, a convenient tool for fluting taps and reamers, thus accomplishing with one tool what now requires a number of tools and a large amount of labor.

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

1. The combination of the frame A B, adjustable top plate C, and the center attachments D D, for the purposes herein set forth.

2. The combination of the adjustable top plate C, dogs E E, angle-iron H, and stud I, with set-screw *k*, as and for the purposes herein set forth.

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

GEO. V. SEAVER

Witnesses:

IVOR. R. TITUS,
FRED. F. BADGLEY.