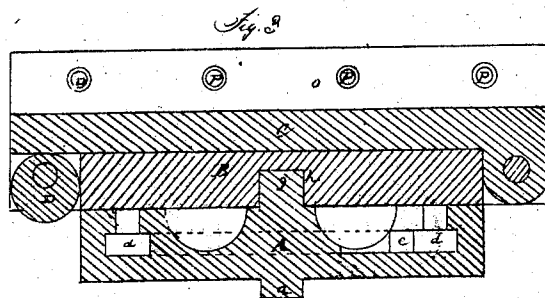
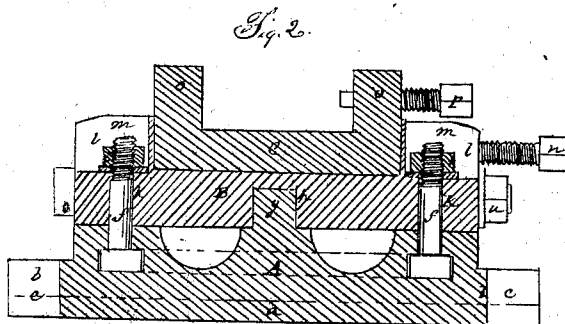
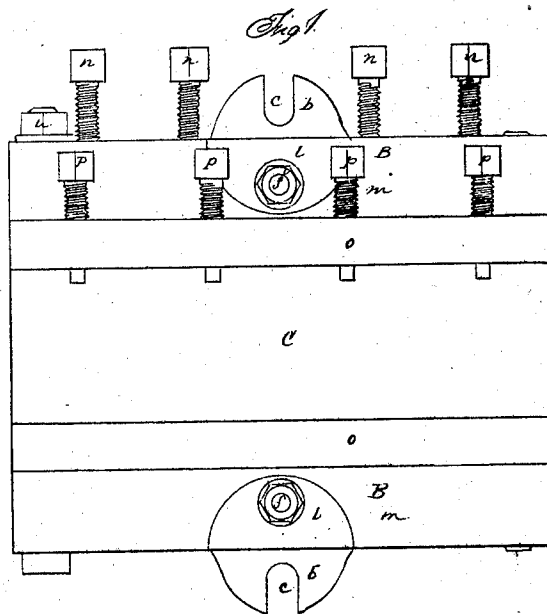


J. S. Hoar.

Chuck for Planing-Mach.

N^o 74360

Patented Feb. 11, 1868.



Witnesses
S. C. V. Piper
 Jas. H. Moulton

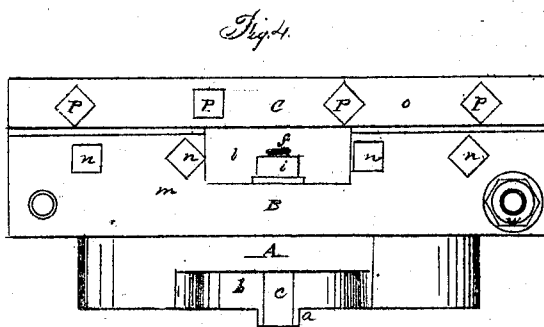
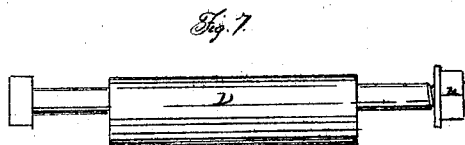
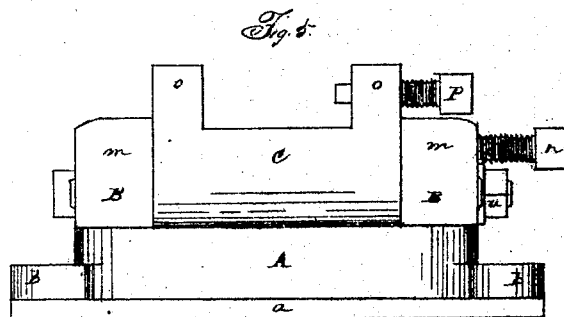
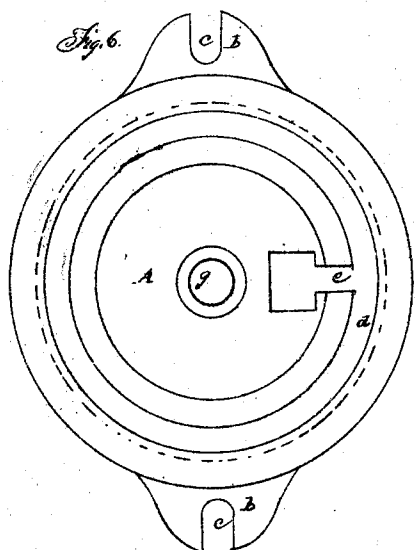
Inventor
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Chuck for Planing Mach.

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United States Patent Office.

JOHN S. HOAR, OF WEST ACTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF, NATHANIEL E. CUTLER, AND CHARLES HASTINGS, OF THE SAME PLACE.

Letters Patent No. 74,360, dated February 11, 1868.

IMPROVED CHUCK FOR PLANING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, JOHN S. HOAR, of West Acton, in the county of Worcester, and State of Massachusetts, have invented an Improved Rotary Chuck for Planing-Machines; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view,
Figure 2 a transverse section,
Figure 3 a longitudinal section,
Figure 4 a side elevation, and
Figure 5 an end view of it.

In such drawings, A denotes a circular bed-plate, provided with a rib, *a*, extending diametrically across its rear side. It also has two ears, *b b*, projecting from opposite sides of it, each of such ears being recessed or slotted, as shown at *c*, in order that by means of clamp-screws, applied to such ears, the bed-plate may be fastened in or to the mandrel or rotary bed of a planing-machine. The bed-plate A is shown in top view in Figure 6, as provided with a circular dove-tailed groove, *d*, or its equivalent, made in its upper face. This groove has an entrance-passage, *e*, leading laterally from it, in order to enable the heads of two screws, *f f*, to be passed either into or out of the said groove. The said plate A is also provided with a central pivot, *g*, which projects into a corresponding bearing, *h*, made in a clamp-plate, B, which is arranged on the plate A, and held thereto by means of the two screws *f f*, and nuts *i i*, the said two screws being extended through holes *k k*, made through the plate B, and leading into semicircular recesses, *l l*, made in two parallel ledges, *m m*, which project from the plate B, and are arranged therewith in manner as represented. Screws *n n n n* are screwed through one, and toward the other of the two ledges *m m*, such screws, with the ledge opposite to that containing them, serving to confine any article to the plate B, or in place thereon, between the ledges. These screws also serve to clamp to the ledges an auxiliary clamp-plate, C, which is arranged between the ledges *m m*, and is so hinged or connected to them as to be capable of being turned into various acute angles with the plate B. In other words, it may be adjusted in its angular position with the plate, by means of an eccentric, D, arranged between the ledges *m m*, in manner as represented. This eccentric is composed of a roller having journals eccentric with its diameter, such journals being disposed in bearings within the ledges. A clamp-nut, *u*, is screwed on one of such journals. A separate view of the eccentric, its journal and clamp-nut, is given in Figure 7. The clamp-plate C is also furnished with two parallel ledges, *o o*, extended from it, and also with a series of screws, *p p p p*, screwed through one of such ledges, and in a direction toward the other, the whole being as exhibited in the drawings. By means of the auxiliary clamp-plate C, and its adjusting-eccentric, D, a tapering piece of metal may be held and adjusted within the chuck, so as to be planed by the planing-machine. The adjustable plate C may be turned over one hundred and eighty degrees with respect to the plate B, so as to enable an article to be placed and clamped between the ledges of the latter. But, when the auxiliary plate C is flat upon the plate B, the two will be in parallelism, and the plate C will be in a situation to receive and hold an article whose opposite surfaces may be parallel.

I claim as my invention—

The combination of the ledges *m m* and screws *n n*, of the plate B, with such plate and the plate A, applied together by means, and so as to render one plate capable of being revolved on and clamped to the other, substantially as specified.

I also claim the combination, as well as the arrangement, of the adjustable eccentric D, (or its equivalent,) and the auxiliary clamp-plate C, (having ledges and screws, as set forth,) with the plates B and A, arranged and applied together, and provided with clamp-screws, substantially as hereinbefore explained.

I also claim the combination of the ledges *m m*, and their screws, with the clamp-plate B, the plate A, the eccentric D, and the auxiliary clamp-plate C, the whole being arranged and applied together in manner and so as to operate substantially as hereinbefore described.

JOHN S. HOAR.

Witnesses:

R. H. EDDY,
SAMUEL N. PIPER.