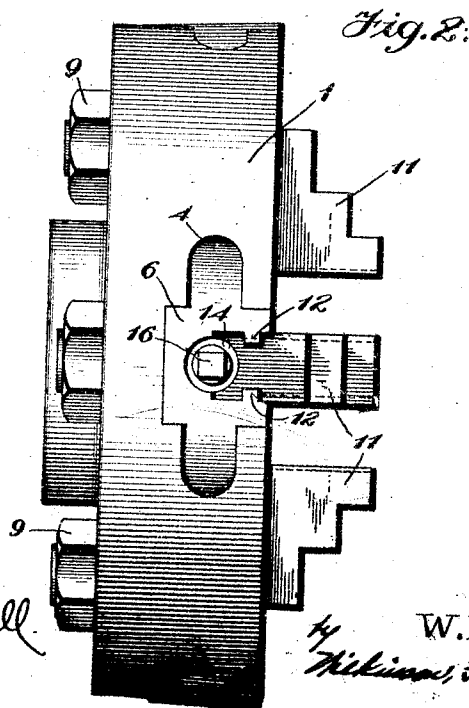
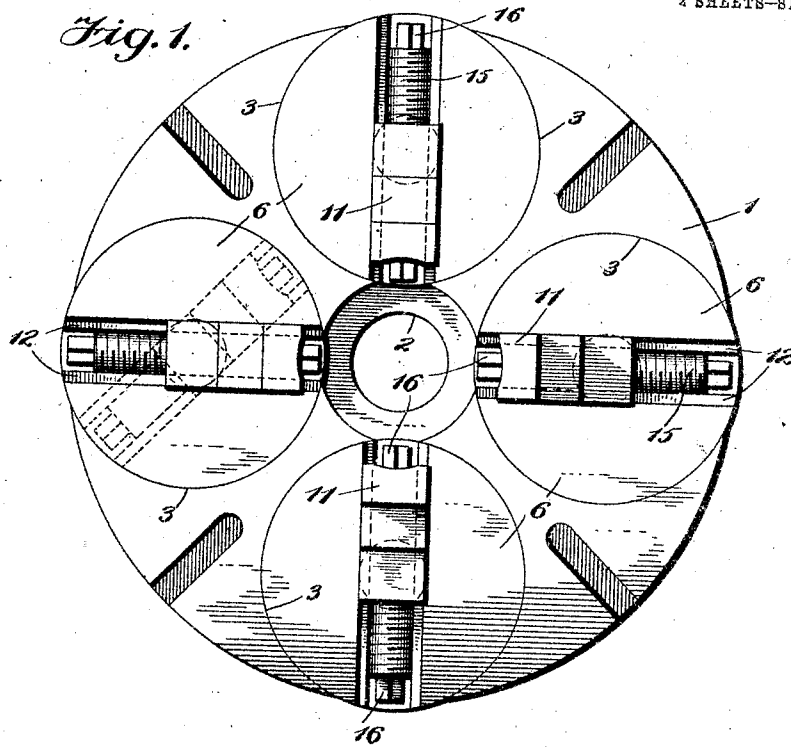


W. E. CLARK.
LATHE CHUCK.
APPLICATION FILED AUG. 18, 1911.

1,025,784.

Patented May 7, 1912.
2 SHEETS—SHEET 1.



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1,025,784.

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2 SHEETS-SHEET 2.

Fig. 3.

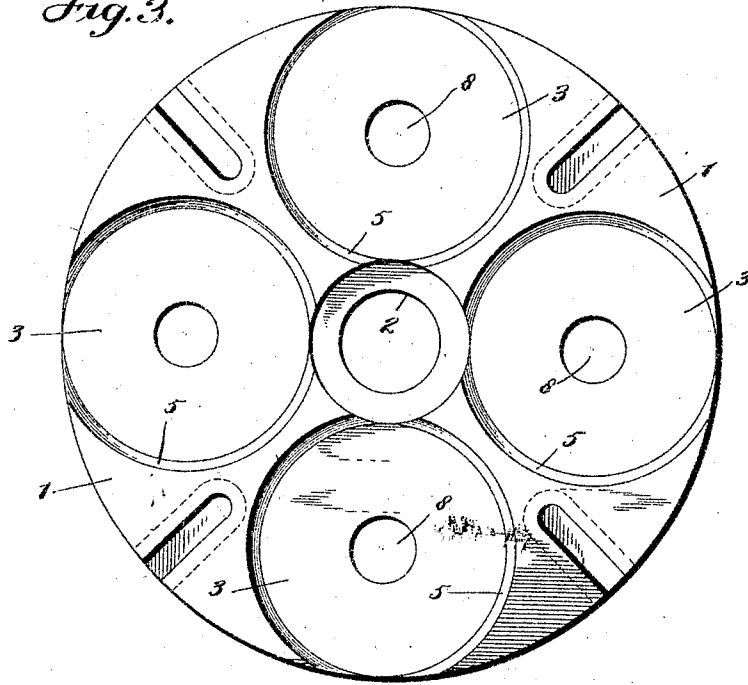
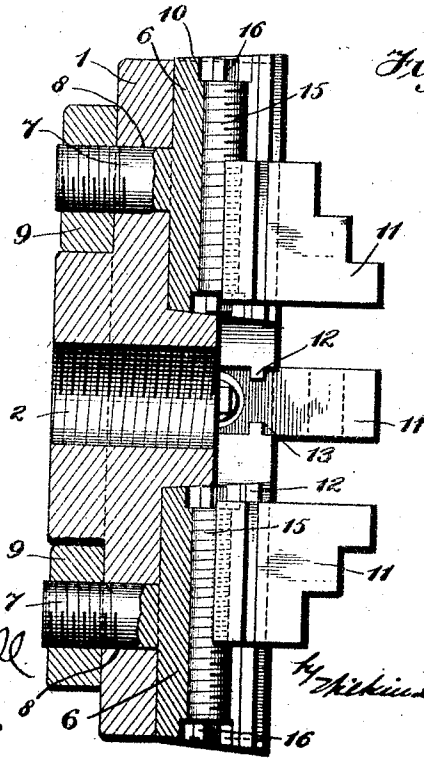


Fig. 4



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UNITED STATES PATENT OFFICE.

WILLIAM E. CLARK, OF BOISE, IDAHO.

LATHE-CHUCK.

1,025,784.

Specification of Letters Patent.

Patented May 7, 1912.

Application filed August 18, 1911. Serial No. 644,843.

To all whom it may concern:

Be it known that I, WILLIAM E. CLARK, a citizen of the United States, residing at Boise, in the county of Ada and State of Idaho, have invented certain new and useful Improvements in Lathe-Chucks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to lathe chucks, and has for its purpose to provide a device of that character which is capable of holding regular or irregular pieces of uniform or different sizes in positions for working, and one wherein the desired adjustments may be easily made and effectively secured in set position.

With these and other objects in view the invention consists in the arrangement and combination of parts hereinafter claimed, and while the invention is not restricted to the exact details shown and described, still for the purpose of disclosure reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which:—

Figure 1 is a front elevation of the device. Fig. 2 is a side elevation thereof. Fig. 3 is a front elevation of the support, and; Fig. 4 is a central vertical sectional view of the device, with the chuck blocks in elevation.

Referring to the construction in detail and wherein like characters of reference indicate corresponding parts in the different views shown, the construction consists in a revoluble support 1 having a central screw-threaded aperture 2 for mounting the same on its supporting shaft. The outer face of the support 1 is provided with a plurality of equally distant and radially disposed recesses 3 counter-sunk therein. Said recesses 3 extend to the edge of the support 1, and at such points have substantially that design indicated by the character 4 in Fig. 2, and the sides 5 of said recesses are slightly inclined or beveled for a purpose to be presently described.

A chuck block holder 6 is mounted in each of the recesses 3, and is provided with a relatively short shaft 7 that extends through an aperture 8 in the supporting member 1. Each of the shafts 7 is screw-threaded to receive a locking nut 9, through the medium of

which the chuck block holders 6 are secured within the recesses 3 at different angular positions. The sides 10 of the members 6 are also inclined or beveled complementary to the sides 5 of the recesses 3, the purpose whereof being to secure a wedge action between the sides of the chuck block holders and recesses, through the tightening means (7 and 9) when said holders have been set to the adjusted positions.

Each of the chuck block holders 6 is provided with a chuck block 11 of any appropriate construction. Said blocks 11 are adapted to be radially adjusted within the holders 6 with respect to the support 1 through the medium of ribs or guides 12 formed in the holders 6, and which fit within grooves or guideways 13 formed in the blocks 11. The under side of each of the blocks 11 is formed with a half screw-threaded way 14 to receive a screw-threaded shaft 15, and said shafts 15 are mounted to rotate in the chuck block supports 6. The shafts 15 have the inner and outer ends thereof squared as at 16, whereby the shafts may be turned through the medium of a suitable tool for effecting radial adjustment of the blocks 11, as above stated. And this radial adjustment of the blocks 11 may be effected through the outer squared ends of the shafts 15 since the rotatable members 6 project beyond the edge of the support 1, viz., the opening 4, and thereby afford a relatively great arcuate distance through which said shaft ends may be engaged.

From the foregoing it will be readily understood that the blocks 11 may, through the means for radial adjustment, be set at the required relative distances for holding regular pieces of different sizes for working, and through the angular adjustment attainable by the chuck block supports 6 the chuck blocks 11 may be set at various angular positions for holding irregular pieces of different sizes.

It is obvious that those skilled in the art may vary the details of construction and arrangement of parts without departing from the spirit of my invention, and therefore I do not wish to be limited to such features except as may be required by the claims.

What I claim is:—

1. In a lathe chuck, the combination of a support, a plurality of chuck-blocks mounted to have adjustment radially of said sup-

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port; and pivotal mounts for said chuck-blocks whereby to effect angular adjustment thereof, substantially as described.

2. In a lathe chuck, the combination of a support; a plurality of chuck-block holders rotatably mounted on said support; and chuck-blocks adjustably mounted on said holders, substantially as described.

3. In a lathe chuck, the combination of a support; a plurality of chuck-block holders rotatably mounted on said support; means for securing said rotatable holders at different angular positions; and chuck-blocks adjustably mounted on said holders, substantially as described.

4. In a lathe chuck, the combination of a support; a plurality of chuck-block holders mounted in said support; each of said holders having a shaft journaled in the support whereby said holders may be angularly adjusted; a nut screw-threaded on each of said shafts for securing said adjustments; a chuck-block on each of said rotatable holders; and a screw-threaded shaft mounted in each of said holders and adapted to effect

adjustment of the chuck-blocks radially of the support, substantially as described.

5. In a lathe chuck, the combination of a support provided with a plurality of counter-sunk recesses having inclined sides and extending to the edge of said support, a plurality of chuck-block holders having inclined sides mounted in said counter-sunk recesses and extending beyond the edge of said support, said holders having each a shaft journaled in the support to allow of angular adjustment of said holders; nuts on said shafts for securing said adjustments; chuck-blocks mounted on said holders; and screw-threaded shafts journaled in said holders and adapted to effect adjustment of the chuck-blocks radially of the support, substantially as described.

In testimony whereof, I affix my signature, in presence of two witnesses.

WILLIAM E. CLARK.

Witnesses:

CHARLEY H. ROBERTS,
GEORGE HOSKINS.