W. T. INGHAM.

LATHE DOG.

APPLICATION FILED FEB. 24, 1916.

1,195,818. Patented Aug. 22, 1916.

FIG. 1

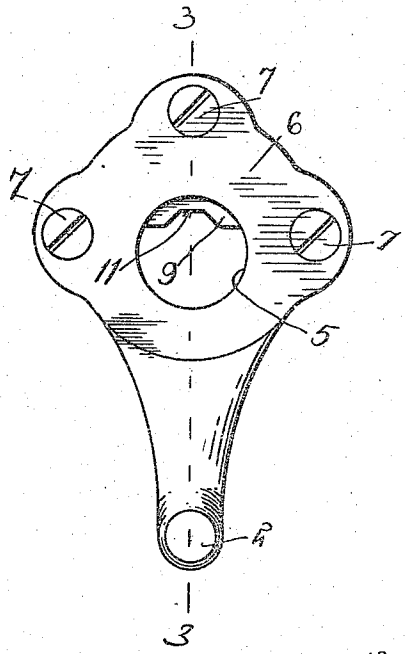


FIG. 2.

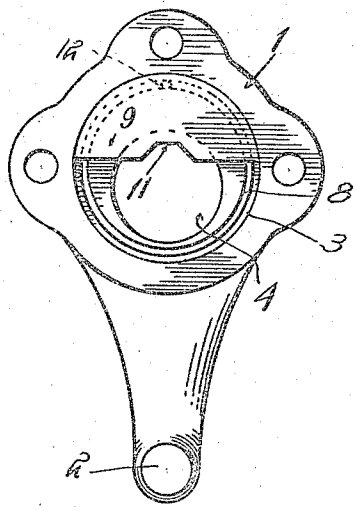
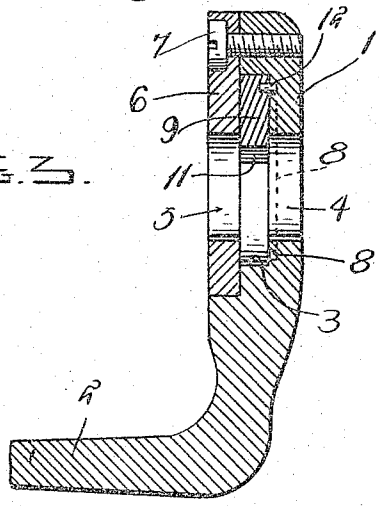


FIG. 3.



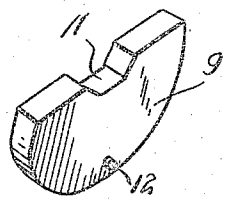


FIG. 4.

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UNITED STATES PATENT OFFICE.

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LATHE-DOG.

1,195,818. Specification of Letters Patent. Patented Aug. 22, 1916.

Application filed February 24, 1916. Serial No. 80,219.

To all whom it may concern:

Be it known that I, WENDELL T. INGHAM, a citizen of the United States, residing at Willimansett, in the county of Hampden, State of Massachusetts, have invented certain new and useful Improvements in Lathe-Dogs; 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 is directed to improvements in lathe dogs and has for its object to provide a device of this character that the same can be firmly secured to the work without the aid of set screws and the like.

It is the usual practice to secure a lathe dog to the work through the medium of a set screw, but this has been found to be objectionable since the set screw projects outwardly and frequently catches in the clothing of the operator, and with dangerous results, and it is to overcome this objection that the present device has been perfected.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:—

Figure 1 is a front elevation of the device. Fig. 2 is a similar view, the cover plate removed. Fig. 3 is a sectional view on line 3—3 of Fig. 1. Fig. 4 is a detail perspective view of the gripping cam.

The device consists of a head 1, which has formed integral therewith a tail 2, which extends laterally and is adapted to be engaged with the face plate in any well known manner. The head 1 is provided with a circular recess 3, the base of which has formed therein an eccentrically located work receiving opening 4, which is alined with the work receiving opening 5 formed in the cover plate 6, said plate being attached to the body by screws 7. An annular groove 8 is formed in the base of the recess and is also arranged eccentrically with respect to the opening 4, the purpose of which will appear later.

The work gripping cam 9 is semi-circular in shape and has its straight face 10 provided with a recess which is adapted to grip the work when the dog is in use. The cam engages the base of the recess 3 and is provided with a lug 12, which slidably engages the groove 8, whereby the cam 9 is permitted to move across the openings 4 and 5 to grip work of different sizes and also serves to prevent said cam from entirely covering said openings. Thus it will be seen that the dog can be quickly applied to the work and upon rotating the head in one direction, the cam will be firmly engaged with the work, and disengaged therefrom upon rotating the head in the opposite direction, and without the aid of a tool.

What is claimed is:—

A lathe dog comprising a head, said head having a circular recess formed therein, the base of said recess having an eccentrically located work engaging opening formed therein, a cover plate for the recess having an opening formed therein and in registry with the first named opening, said recess having an annular groove formed in its base and eccentrically located with respect to said openings, a gripping cam mounted in the recess and having a lug carried thereby for slidably engaging the groove.

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

WENDELL T. INGHAM.

Witnesses:
F. J. MCKAY,
AMELIA ROBERT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."