No. 669,810. Patented Mar. 12, 1901.

P. SCHWICKART.

LATHE DOG.

(Application filed Oct. 30, 1900.

(No Model.)

Fig. 1.

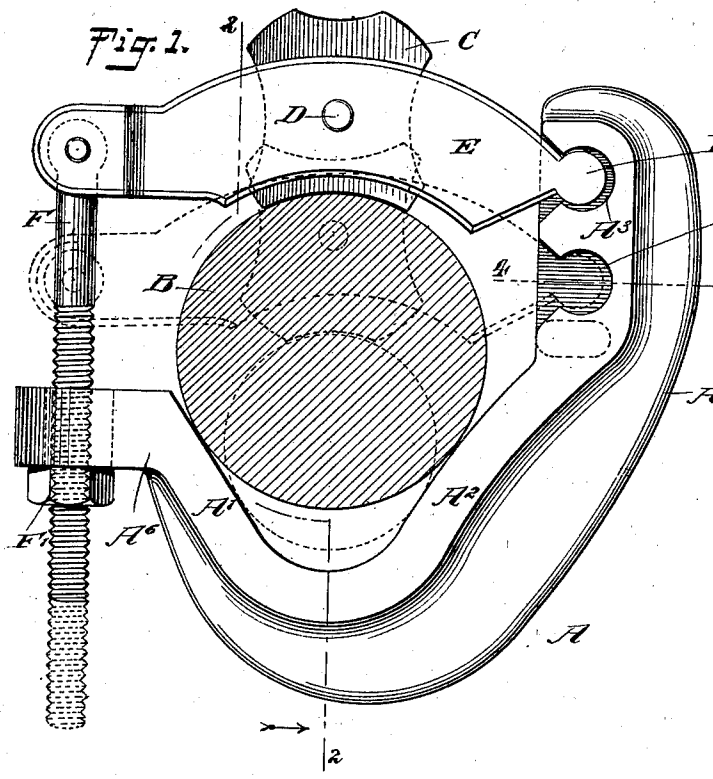


Fig. 2.

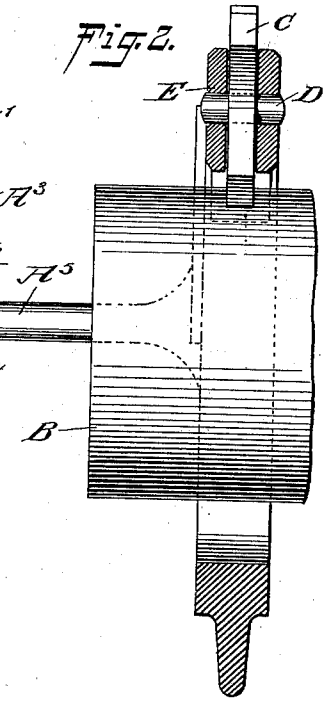


Fig. 3.

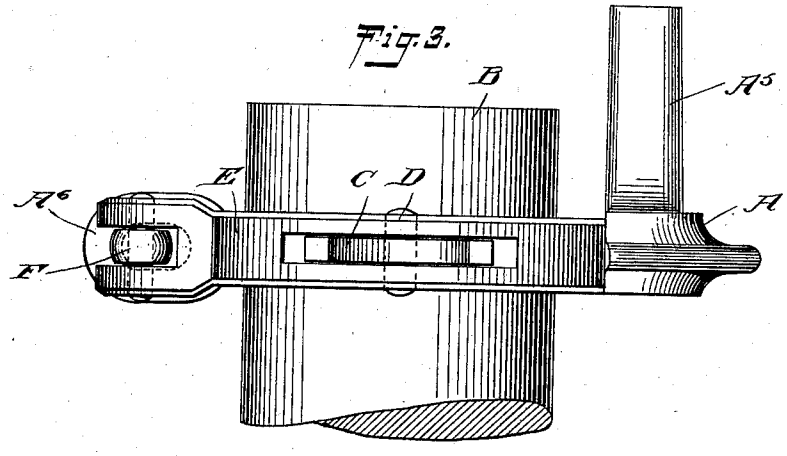
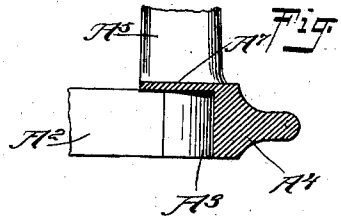


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PHILIP SCHWICKART, OF BROOKLYN, NEW YORK.

LATHE-DOG.

SPECIFICATION forming part of Letters Patent No. 669,810, dated March 12, 1901.

Application filed October 30, 1900. Serial No. 34,930. (No model.)

To all whom it may concern:

Be it known that I, PHILIP SCHWICKART, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Lathe-Dog, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved lathe-dog which is simple and durable in construction and arranged to properly engage the work and to permit of convenient and quick adjustment to work of different diameters.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a face view of the improvement as applied on a shaft shown in section. Fig. 2 is a transverse section of the same on the line 2 2 in Fig. 1. Fig. 3 is a plan view of the same, and Fig. 4 is a sectional plan view of part of the improvement on the line 4 4 in Fig. 1.

The lathe-dog has its body A formed with members A' A^2, standing at an angle to one another to receive and center a shaft B or other work on which the dog is to be applied. The top of the shaft B is adapted to be engaged by a clamping-block C, pivoted at D in a slot in a clamping-bar E, formed at one end with an integral pivot E', engaging one of a series of recesses A^3, formed in the face of the extension A^4, integral with the member A^2 of the body A. The free end of the clamping-bar E is pivotally connected with an adjusting-bolt F, engaging an outwardly-extending flange A^6 integral with the upper end of the member A'. By adjusting the nut F' on the bolt F the bar E is swung downward, so as to bring the lower side of the clamping-block C in firm contact with the shaft or work B, and thereby securely fasten the dog to the work. From the extension A^4 extends the usual pin A^5 for engagement with the face-plate on the lathe, so that when the latter is set in motion the dog is carried around and turns the shaft or work B in the usual manner.

The sides of the clamping-block C are concave and are arranged a different distance from the center of the pivot D, so that upon turning the said clamping-block work having different diameters can be engaged without changing the fulcrum of the clamping-bar E from one recess A^3 to another. As shown, the clamping-block C has four such concave sides to allow of engaging work having four essentially-different diameters, it being understood that for work having a certain diameter the block C is turned on its pivot D until the desired side is below the inner edge of the clamping-bar E to engage the work on the top thereof opposite the members A' A^2.

By having two recesses A^3 located one above the other it is evident that eight different adjustments can be made, thus allowing the use of the lathe-dog for work having different diameters. By having the rear walls A^7 of the recesses A^3 integral with the extension A^4 the latter is greatly strengthened or reinforced, and at the same time the fixed pivot E' of the clamping-bar E is not liable to accidentally slip out of the recess in a lateral direction.

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

1. A lathe-dog, comprising a body having V-shaped members, an extension on one of the said members and formed with a plurality of recesses located one above the other, a clamping-bar having its fulcrum in one of the said recesses, an adjustable bolt pivoted on the free end of the clamping-bar and engaging a flange on the other body member, and a clamping-block pivoted on the said clamping-bar between the fulcrum thereof and the said bolt, said clamping-block having concave sides located at different distances from the pivot of the block, as set forth.

2. A lathe-dog, consisting of a body having V-shaped members, one of which extends above the other and is provided with a plurality of recesses in one side face and with a laterally-projecting pin, the other member of the body being provided with an outwardly-extending apertured flange, a clamping-bar

formed with a pivot at one end adapted to enter one of the said recesses, and having a slot at about the center of its length, a bolt pivoted to the other end of the clamping-bar and passing through the flanged member of the body and provided with a nut, and a clamping-block pivoted in the slot of the clamping-bar and having concave sides located at different distances from the pivot of the block, substantially as herein shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PHILIP SCHWICKART.

Witnesses:

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EVERARD BOLTON MARSHALL.