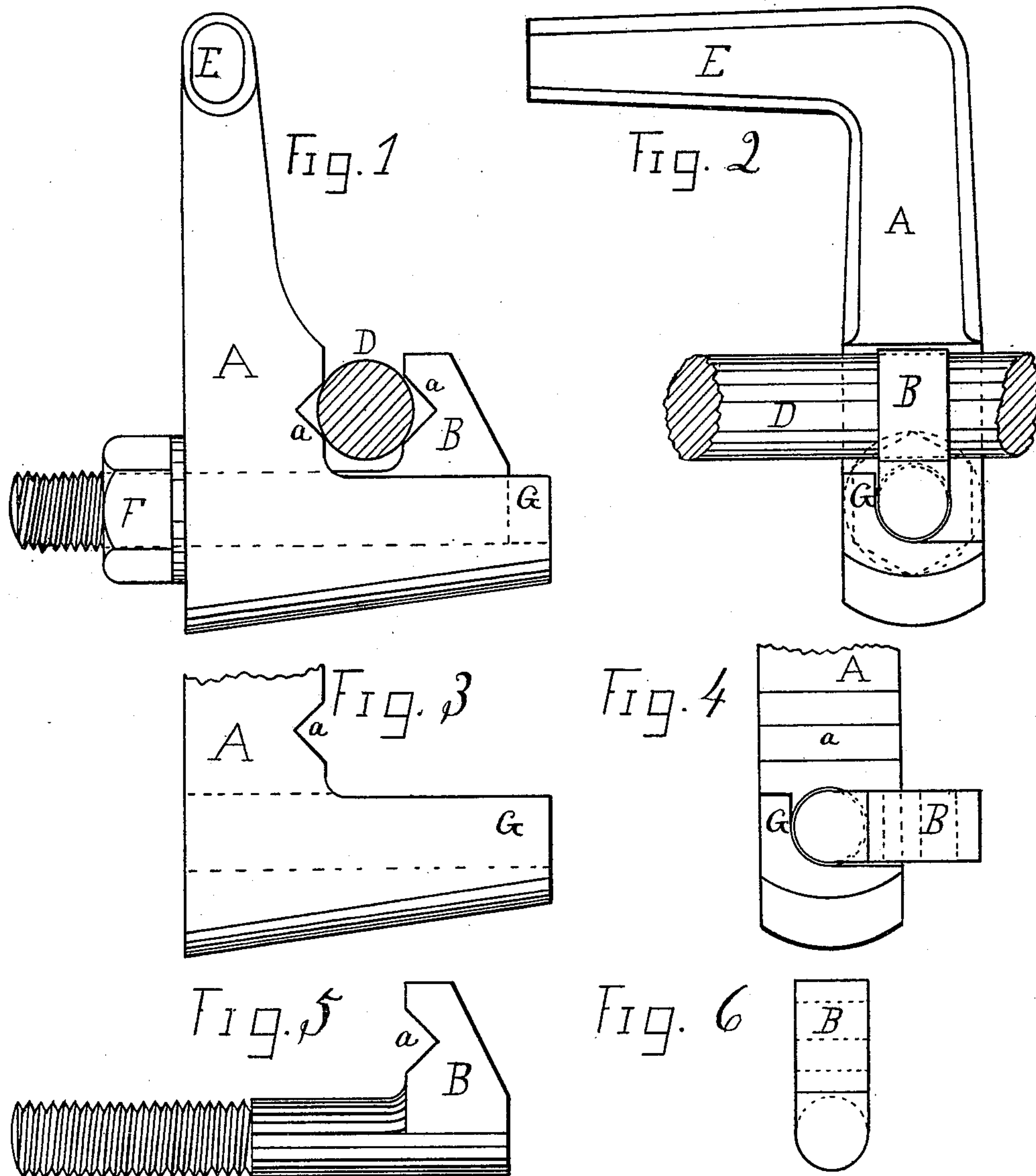


(No Model.)

E. A. WARBURTON.
LATHE DOG.

No. 464,051.

Patented Dec. 1, 1891.



WITNESSES.

W. M. Skinner.

M. A. Wellman

INVENTOR.

Edward A. Warburton.

by John Skinner, Attorney.

UNITED STATES PATENT OFFICE.

EDWARD A. WARBURTON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
OF TWO-THIRDS TO NICHOLAS S. ASHWORTH AND JOHN MAIR, BOTH OF
SAME PLACE.

LATHE-DOG.

SPECIFICATION forming part of Letters Patent No. 464,051, dated December 1, 1891.

Application filed June 3, 1891. Serial No. 394,962. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. WARBURTON, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Lathe-Dogs, of which the following is a specification.

My invention relates to a lathe-tool known as a "lathe-dog;" and the object of my improvement is the construction of a simple, cheap, yet strong and handy, tool to be used for driving or turning shafts, studs, or other objects to be turned in a turning-lathe; and it consists in constructing the dog or carrier of two pieces, one to clamp the object and connect the face-plate, and the other a clamping-bolt with a gib-head, as illustrated in the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of a lathe-dog constructed according to my invention. Fig. 2 is a front view of Fig. 1. Fig. 3 is a sectional side view of the part A. Fig. 4 is a front view of Fig. 3 and showing the gib end of the clamping-bolt. Fig. 5 is a side view of the clamping-bolt. Fig. 6 is an end view of Fig. 5.

Similar letters refer to similar parts in all the several views.

My improved carrier-dog is constructed in the following manner:

A represents the body of the carrier, which may be cast of steel or malleable iron, and is provided with the usual arm E, that engages a slot in the lathe face-plate. It has cast in it a hole for the clamp-bolt B. Said hole is represented by the dotted lines in Figs. 1 and 3. It also has a guide-lip G.

B represents the gib-head clamp-bolt. The form is shown in Figs. 5 and 6. On this bolt is cut a screw-thread for the nut F.

The guide-lip G is made with a side or shoulder on only one side thereof, as shown,

so as to allow the gib-head B to be turned down or rotated through an angle of ninety degrees to be out of the way and permit the more easy and rapid adjustment of the dog to the work, as shown at Fig. 4.

To apply and use my improved carrier-dog the shaft D is placed on the centers in the lathe. The gib-head B is turned down, as shown in Fig. 4. The arm E is inserted in the slot of the face-plate with the carrier-dog hanging down and resting on the shaft D. The gib-head is then turned, as shown in Figs. 1 and 2, and the nut F screwed to draw the gib against the shaft D and made fast by a wrench, the shaft D being clamped tight in the notches *a a* and by the arm E made to revolve with the lathe.

It will be obvious that my improved carrier-dog has many advantages not possessed by the ordinary set-screw carrier-dog, viz: My improved carrier can be placed on the shaft after the shaft is placed on the centers. It can be placed on shafts having collars on each end. It will not deface the work as much as a set-screw carrier. It is as readily adapted for a square shaft as a round one. It may be used as a vise to hold work in drilling, and as a clamp may be used for numerous purposes in the machine-shop.

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

In a lathe-dog, the combination of the body A, the rotatable gib-head clamping-bolt B, and the guide-lip G, open on one side, as shown, described, and for the purpose specified.

EDWARD A. WARBURTON.

Witnesses:

JOHN SHINN,
WM. BUCKLEY.