(No Model.)

F. THOMAS.

TREADLE FOR FOOT LATHES.

No. 422,465. Patented Mar. 4, 1890.

Fig. 1.

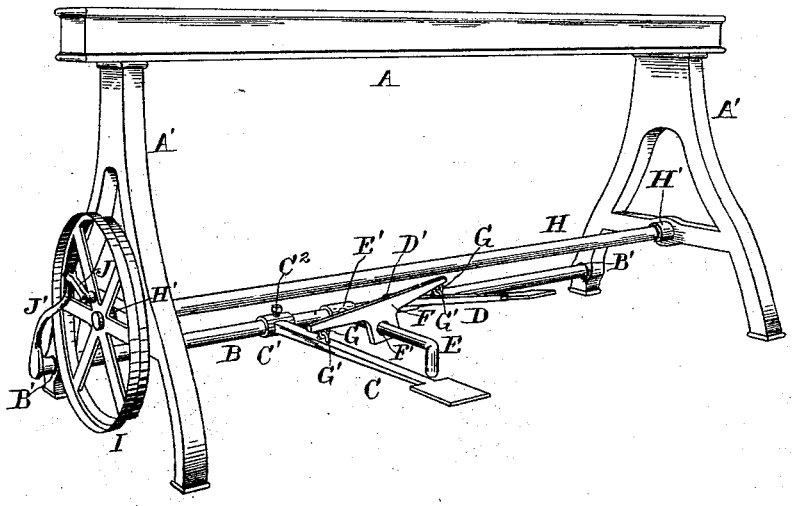
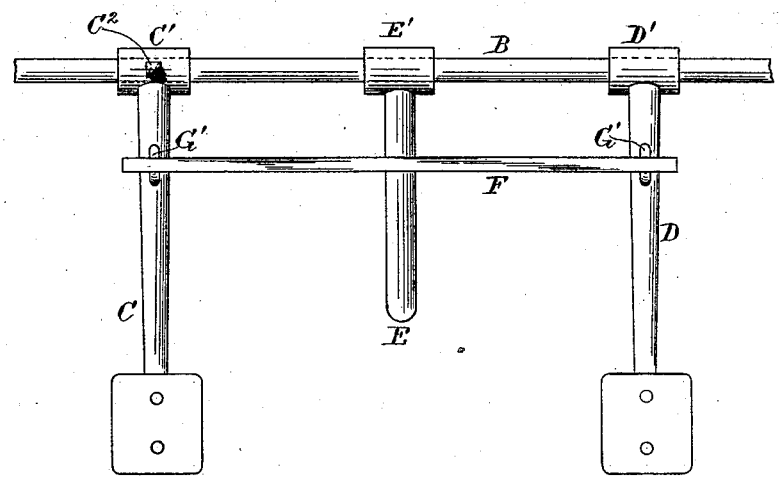


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRED THOMAS, OF ROCKFORD, ILLINOIS.

TREADLE FOR FOOT-LATHES.

SPECIFICATION forming part of Letters Patent No. 422,465, dated March 4, 1890.

Application filed September 18, 1889. Serial No. 324,357. (No model.)

To all whom it may concern:

Be it known that I, FRED THOMAS, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Treadles for Foot-Lathes, of which the following is a specification.

The principal object of this invention is to provide treadles for foot-lathes and kindred machines that may be quickly and easily shifted to and operated at any desired point between the ends of a lathe.

A further object of this invention is to so connect a pair of treadles with a lathe that an operator may drive the same with one or both feet, according as it may be desired to stand or sit thereat.

The invention consists of certain new and useful features of construction and combinations of parts hereinafter described, and pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is an isometric view of the lower portion of a foot-lathe provided with my improvement. Fig. 2 is a plan view of the treadles and their attachments.

Like letters of reference indicate corresponding parts throughout the several views.

A is a lathe-bed. A′ are legs for supporting the same.

B is a rock-shaft, having bearings B′ in the legs A′ of the lathe.

C is a treadle connected with the rock-shaft B by means of a transverse sleeve C′, which may be slid, together with the treadle C, along said rock-shaft B. The treadle C may be rigidly connected with the rock-shaft B by means of a set-screw C^2, or in any other suitable manner.

D is a treadle connected with the rock-shaft B by means of a loose transverse sleeve D′, which may be freely oscillated and slid, together with the treadle D, along said rock-shaft B.

E is a fulcrum connected with the rock-shaft B by means of a loose sleeve E′. The fulcrum and sleeve E′ may be slid along the rock-shaft B.

F is a treadle-connecting lever loosely mounted at the central portion thereof on the fulcrum E, which is preferably inserted through an opening F′ therein, as shown.

G G′ are double eyes or links joined together and connecting the treadles C D with the lever F, forming loose joints between said parts.

H is the main shaft of the lathe and is mounted in the bearings H′.

I is a wheel for transmitting power from the rock-shaft B to the cone-pulley (not shown) of the lathe.

J J′ are respectively a connecting-arm and a crank for transmitting power from the rock-shaft B to the main shaft H.

It has not been thought, in order to perfectly understand my invention, that any further illustration or description of a lathe is requisite.

The rock-shaft B is operated by pressing the treadle C downward and then raising it by pressing downward on the treadle D, which, through the media of the lever F and parts G G′, restores the treadle C to its original position.

If it is desired to operate the lathe with one foot, the lever may be disconnected from the treadle C.

It will often be found a great convenience to the operator to be able to move the treadles of his lathe to any point between the ends thereof to bring them under or near his work. In order to do so with a lathe provided with my improvement, he needs only to loosen the set-screw C^2 and slide the treadles, fulcrum, and connecting-lever to any desired point on the rock-shaft B.

I claim—

1. In combination, a foot-lathe rock-shaft, two treadles, and a fulcrum connected therewith by means of loose transverse sleeves C′, D′, and E′, a set-screw C^2, for rigidly connecting one of said treadles and sleeves to the rock-shaft, a lever loosely mounted at the central portion thereof on said fulcrum between said treadles, and double eyes for connecting said lever with said treadles, substantially as set forth.

2. In combination, the rock-shaft B, the treadles, and fulcrum C D E, connected therewith by means of sleeves C′ D′ E′, as shown,

the lever F, mounted by the central portion thereof on the fulcrum E, the double eyes G G′, connecting the lever F with the treadles C D, and a set-screw for rigidly connecting one of said treadles and sleeves with said rock-shaft B, all of said parts being constructed and arranged to slide on said rock-shaft B, substantially as and for the purpose set forth.

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