(No Model.)

L. EWALD.

ADJUSTABLE SUPPORTING REST.

No. 443,847. Patented Dec. 30, 1890.

Fig. 1.

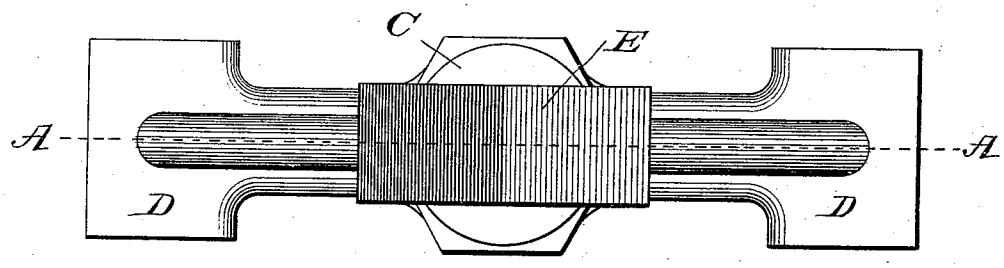
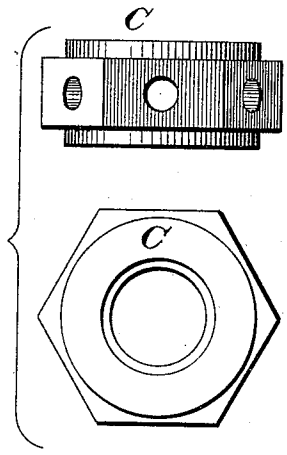


Fig. 2.

Fig. 3.



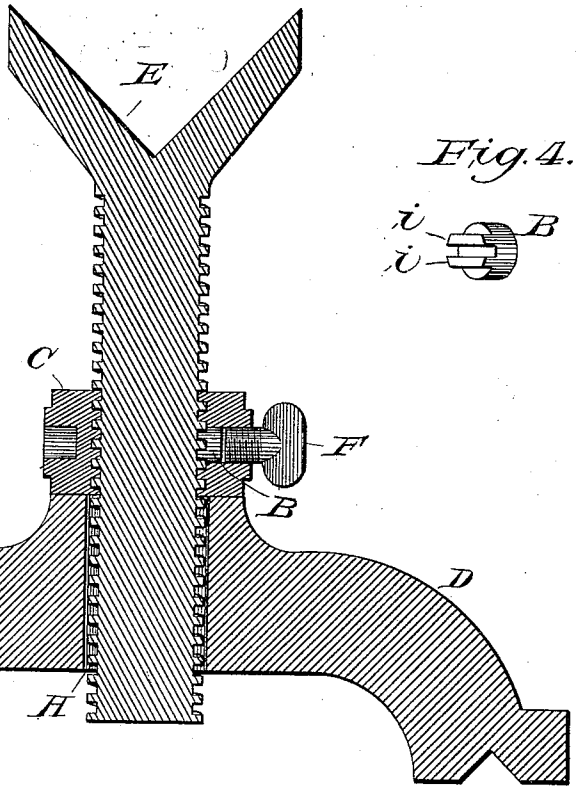


Fig. 4.

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ADJUSTABLE SUPPORTING-REST.

SPECIFICATION forming part of Letters Patent No. 443,847, dated December 30, 1890.

Application filed January 7, 1890. Serial No. 336,212. (No model.)

To all whom it may concern:

Be it known that I, LEO EWALD, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and the State of Minnesota, have invented an Improvement in Adjustable Supporting-Rests, of which the following is a specification.

My invention relates to an improvement in adjustable supporting-rests for use on turning-lathes, center-machines, &c., in which the supporting-screw is adjusted by means of a nut; and the objects of my improvement are, first, to obtain a supporting-rest that can easily be adjusted up to or lowered away from the work; second, a supporting-rest that will permit its load being swung end for end or around without raising or lowering same; third, to prevent the support-screw thread from being roughened or burred with thumb or set screw. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top view; Fig. 2, a cross-section of entire device on line A A, Fig. 1; Fig. 3, a perspective view of nut, and Fig. 4 a perspective view of set-screw plug.

Similar letters refer to similar parts throughout the several views.

D (shown in Figs. 1 and 2) represents the main stand as preferred for use on turning-lathes. It is constructed with V-shaped grooves that fit V-ways on turning-lathes. In the middle of said main stand is hole H, for the reception of support-screw. I do not, however, confine myself to this construction of said main stand, as a piece of wood or a piece of iron with a hole in it will answer the same purpose.

E represents the support-screw shown in Fig. 2. Its upper end may be made forked for the reception of its load. Its body has ordinary screw-thread cut on same, and fitting into hole H in the main stand a loose fit.

C, Fig. 3, is a nut, also shown in Fig. 2, that fits onto said support-screw and rests on the main stand. Said nut may be provided with horizontal holes for the insertion of a lever or bar to turn it with.

F in nut C (shown in Fig. 2) represents an ordinary thumb or set screw used to secure said nut to said support-screw, when so desired.

B, Fig. 4, and also shown in position in nut C, Fig. 2, is a set-screw plug, constructed so as to fit loosely into the set-screw hole. The end where the set-screw bears on said plug is made flat. The other end on said plug has projection *i i*, that fits between and bears on the bottom of the thread on support-screw when set-screw is tightened against said plug. Consequently said set-screw cannot burr or rough the thread on the support-screw.

The operation of the adjustable supporting-rest will best be seen by referring to Fig. 2. Turning nut C to the left or right will raise or lower the support-screw E or the load that may be placed on same, and tightening up on set-screw F will fasten nut C to said support-screw and prevent said support-screw from screwing down or up when a load is swung around on said rest.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in an adjustable supporting-rest, of a main stand having hole H, support-screw E, and nut C, resting on main stand for adjusting said support-screw, substantially as described.

2. The set-screw plug B, having the projections *i i* on same, substantially as shown, for the purpose specified.

3. The combination, in an adjustable supporting-rest, of nut C, set-screw F, and set-screw plug B, all substantially as set forth.

LEO EWALD.

Witnesses:
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