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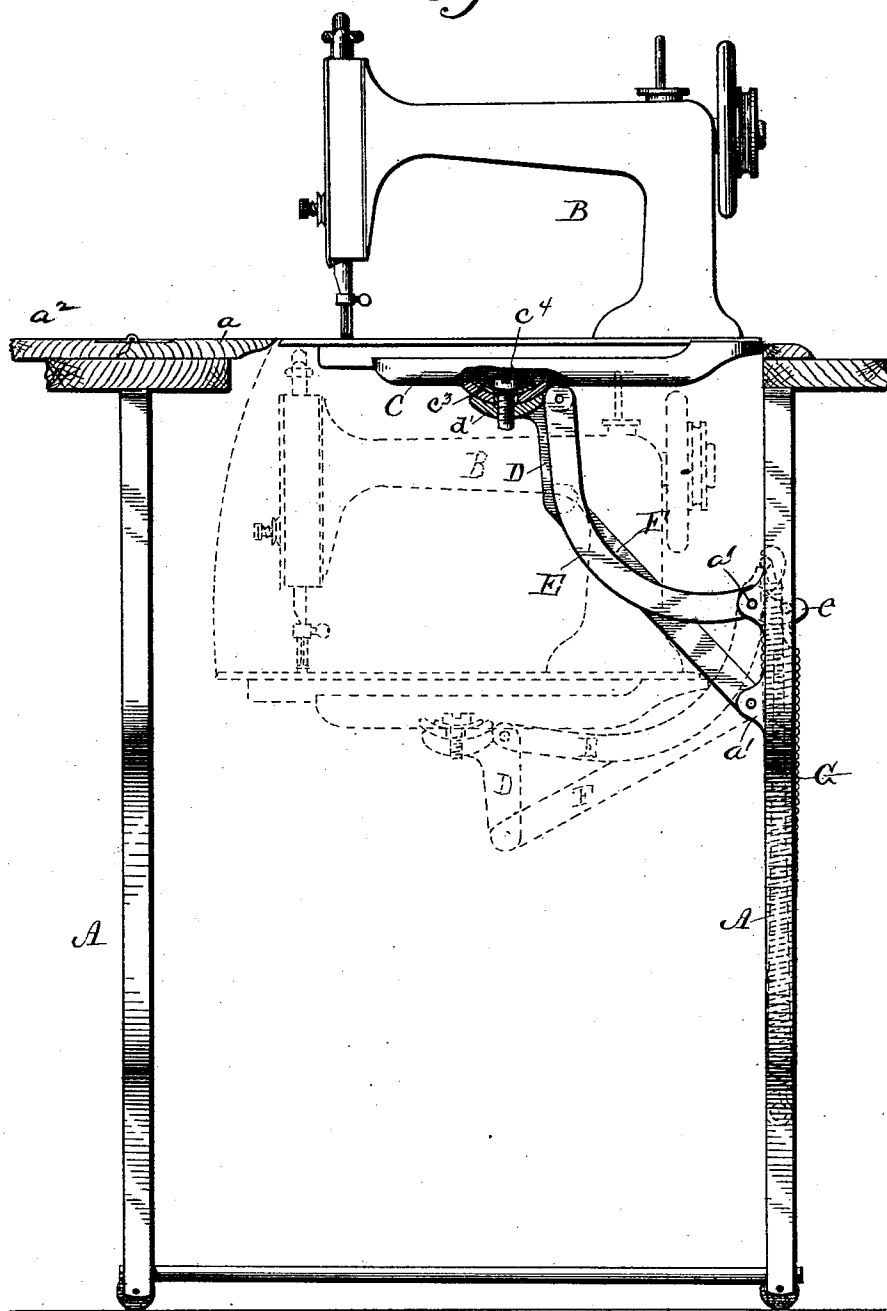
3 Sheets—Sheet 1.

J. BOLTON.
SEWING MACHINE STAND.

No. 484,401.

Patented Oct. 18, 1892.

Fig. 1.



Witnesses

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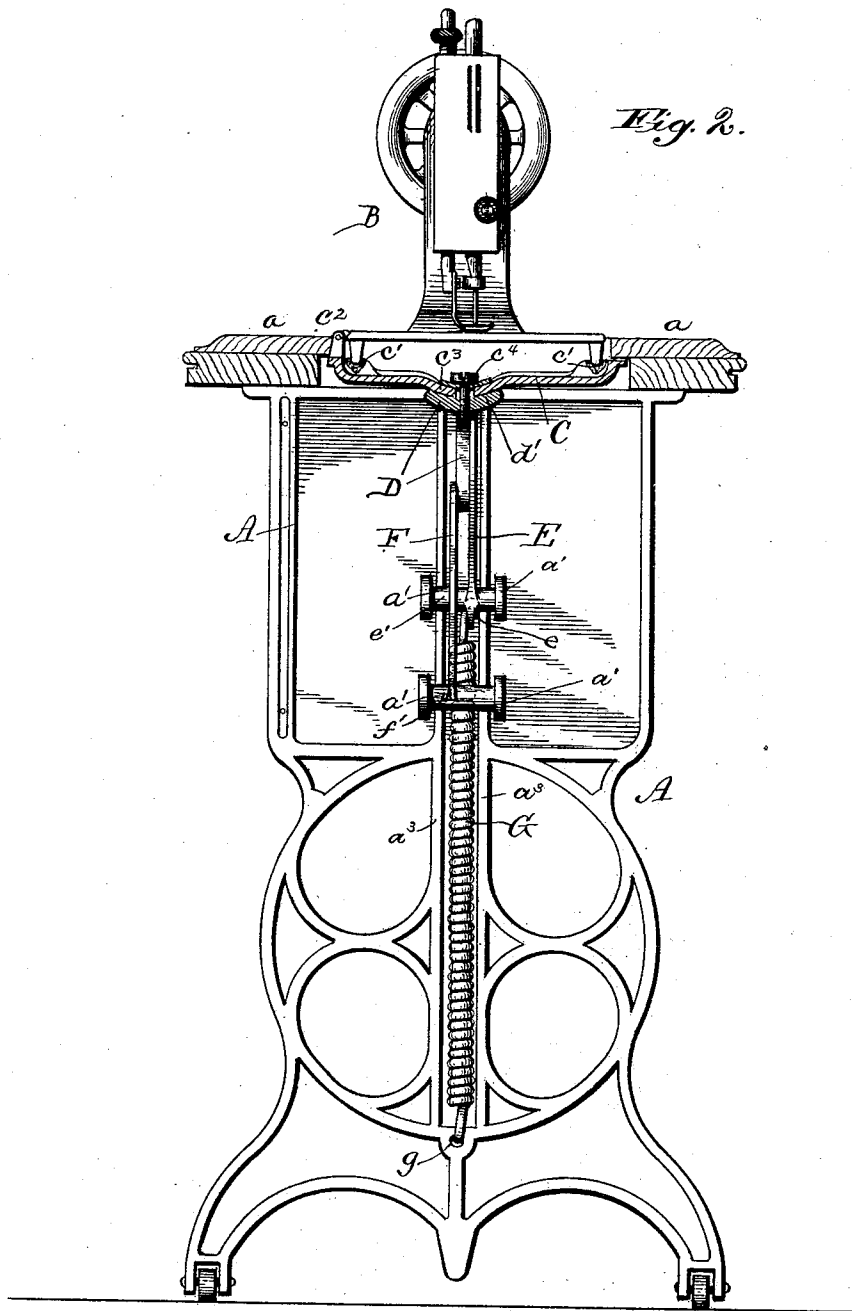
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SEWING MACHINE STAND.

No. 484,401.

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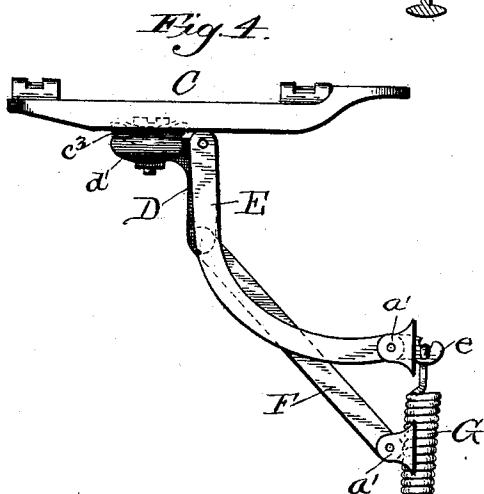
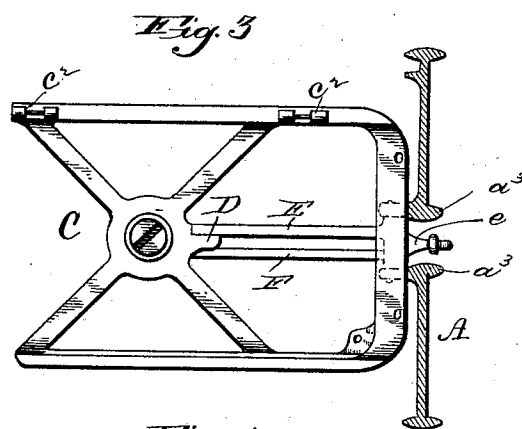
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J. BOLTON.
SEWING MACHINE STAND.

No. 484,401.

Patented Oct. 18, 1892.



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UNITED STATES PATENT OFFICE.

JAMES BOLTON, OF CHICAGO, ILLINOIS.

SEWING-MACHINE STAND.

SPECIFICATION forming part of Letters Patent No. 484,401, dated October 18, 1892.

Application filed February 29, 1892. Serial No. 423,144. (No model.)

To all whom it may concern:

Be it known that I, JAMES BOLTON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sewing-Machine Stands, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention has for its object to provide a simple and effective mechanism whereby a sewing-machine may be properly supported on its stand and may, when desired, readily be lowered beneath the table of the latter, so
15 as to be out of the way and to enable the table to be used for other purposes. To this end I mount the sewing-machine on a vertically-movable frame or support, (which is adapted to serve as a support for the oil-pan
20 if made in skeleton form, or as the oil-pan itself if made solid,) and to which the sewing-machine may be hinged in any suitable manner, so as to be turned up for access to the parts beneath the bed-plate. To this machine-support is attached a bracket, to which
25 are jointed a lever and a link, both of which are pivoted to the side frame of the machine, and to the said lever is attached a counterbalancing-spring of proper strength to nearly
30 or fully counterbalance the weight of the sewing-machine, and therefore permit the latter to be raised and lowered with ease.

In the accompanying drawings, Figure 1 is a side view, partly broken away, of a sewing-machine stand with the sewing-machine thereon, embodying my invention. Fig. 2 is a cross-sectional view of the same. Figs. 3 and 4 are detail views of the machine-support and the sustaining devices therefor.

40 A denotes the sewing-machine stand, of any suitable construction, having at its top a table portion *a*.

B denotes the sewing-machine, adapted to be sustained on the stand in operative position, as shown in full lines in Fig. 1, or to be lowered beneath the table of the stand, as shown in dotted lines in said figure. The machine B is suitably sustained by a support C, which, if made in skeleton form, as more
50 clearly shown in Fig. 3, is adapted to receive a sheet-metal oil-pan, or if made solid or of a thin web of cast metal will itself serve as the

oil-pan. To deaden noise, suitable packings of rubber or other soft material *c'*, Fig. 2, may be interposed between the ribs of the bed-plate of the machine and the support C, and the machine bed-plate may be jointed to the said support by means of hinges *c*² to permit the machine to be turned up for access to parts beneath the bed-plate.

To the machine-support C is rigidly secured a bracket D, to which are jointed a lever E and a link F, the opposite ends of said lever and link being pivoted to lugs *a'* on the side frame of the stand. The lever E is attached to the upper end of the bracket D, and has beyond its pivotal or fulcrum point a short arm *e*, to which is connected the upper end of a strong spiral spring G, attached at its lower end at *g* to the sewing-machine stand. This spring is of such strength as to nearly or wholly counterbalance the weight of the sewing-machine, so that when it is desired to raise or lower the latter this operation will easily be effected. The lever E and link F are provided with hubs *e'* and *f'*, respectively, so as to afford solid pivotal supports for the same in the separated lugs *a'* of the side frame or leg of the stand. By thus providing the said lever and link with the said hubs by which they are pivoted in the separated lugs *a'* it will be obvious that I secure such rigid bearings as will more properly resist any side strain, and this lateral resistance by which the machine may be solidly supported is augmented by attaching the said lever and link to opposite sides of the bracket D, as shown in Figs. 2 and 3 of the drawings, this means of attachment resulting in greater strength and rigidity than would be secured if the lever and link were both attached to the same side of the said bracket, as will be obvious. The counterbalancing-spring G, which is secured to the short arm *e* of the lever E, is arranged between the vertical ribs or bars *a*³ of the side frame or leg A, and is thus so placed as to be properly protected and out of the way.

The machine-support C is provided with a rounded portion *c*³, and the bracket D is provided with a corresponding portion *d'*, having its upper face concaved to fit the rounded portion *c*³. This construction permits the machine-support and the machine carried thereby to be suitably adjusted on the portion *d'*

of the bracket D, so that the machine may be properly leveled, so as to bring it into correct position relative to the table of the stand, and when the machine-support and machine have
 5 been adjusted on the supporting-bracket the machine-support is secured in place by means of the set-screw c^4 , which passes loosely through a hole in the said rounded portion c^3 of the support.

10 From the foregoing it will be apparent that I provide a simple construction by means of which a sewing-machine may be so supported on its stand as to be readily raised and lowered. When the machine is in its elevated
 15 position, as shown in full lines in Fig. 1, it will be held in place by a suitable latch or spring-catch of any well-known form, (not shown,) and when it is lowered to the position shown in dotted lines in Fig. 1 it may be covered
 20 over by a hinged leaf a^2 , which is adapted to be turned over the opening in the table.

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

1. The combination, with a sewing-machine
 25 stand, of a support provided with a rounded portion, a bracket having a concaved face to

fit the said rounded portion, means for securing said bracket to the said support, a lever and a link, both jointed to said bracket and to suitable supports on the sewing-machine
 30 stand, and a counterbalancing-spring attached to one arm of the said lever and to said stand and of suitable strength to counterbalance the weight of the sewing-machine placed on said support.

35 2. The combination, with the stand A, provided with lugs a' , of the machine-support C, provided with the bracket D, the lever E, and link F, jointed to opposite sides of said bracket and provided, respectively, with the hubs e'
 40 and f' , suitably pivoted in the said lugs, the latter being separated from each other, as shown, and the counterbalancing-spring G, attached to the short arm e of the said lever E and to said stand and arranged between the
 45 vertical bars or ribs a^3 of the stand.

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

JAMES BOLTON.

Witnesses:

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