

C. E. COLEGROVE.
CLAMPING MECHANISM FOR DROP LEAF SEWING MACHINE STANDS.
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997,271.

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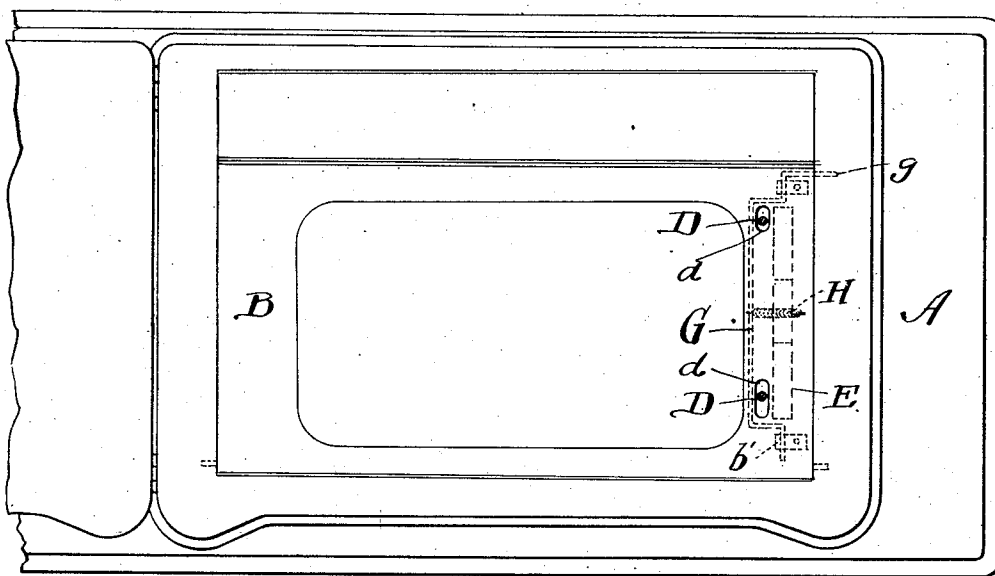


Fig. 1.

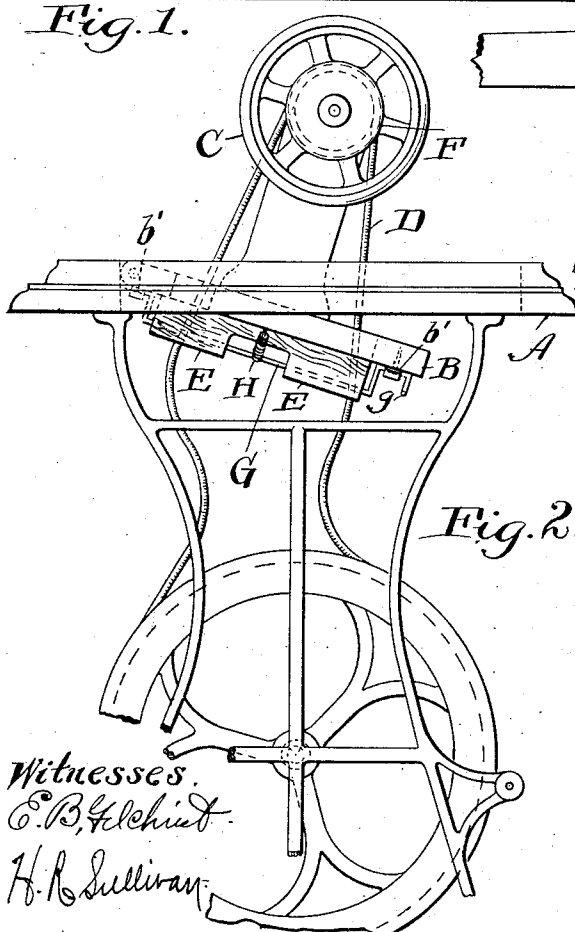


Fig. 2.

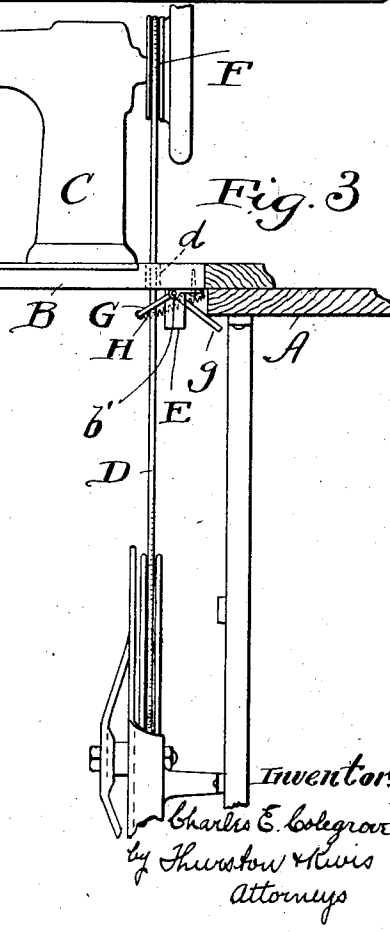


Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

CHARLES E. COLEGROVE, OF CLEVELAND, OHIO, ASSIGNOR TO THE WHITE SEWING MACHINE COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

CLAMPING MECHANISM FOR DROP-LEAF SEWING-MACHINE STANDS.

997,271.

Specification of Letters Patent.

Patented July 11, 1911.

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To all whom it may concern:

Be it known that I, CHARLES E. COLEGROVE, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Clamping Mechanism for Drop-Leaf Sewing-Machine Stands, of which the following is a full, clear, and exact description.

This invention relates to improvements in drop leaf sewing machine stands.

The object of the invention is to provide means whereby, when the drop-leaf is lowered beyond its horizontal operative position, the driving belt will be so clamped to the drop-leaf that it must maintain its operative engagement with the driving wheel of the sewing machine head.

The invention consists in the combination with a drop-leaf having vertical clamping surfaces, of a spring actuated clamp adapted to engage with the fixed top of the sewing machine stand when the drop-leaf is in operative position, and to be thereby held out of action, but to automatically act to clamp both legs of the belt against the clamping surfaces referred to when the drop-leaf is lowered.

The invention also consists of the more specific construction and combination of parts shown in the drawings and hereinafter described and definitely pointed out in the claims.

In the drawing, Figure 1 is a plan view of a drop-leaf sewing machine stand. Fig. 2 is an end view thereof when the sewing machine head is fixed to the drop-leaf and when the drop-leaf is swung down a little from its operative horizontal position. Fig. 3 is a front elevation, with the stand top partly sectioned, of one end of said sewing machine stand and one end of a sewing machine head.

Referring to the parts by letters, A represents the top of a sewing machine stand; and B represents the drop-leaf thereof, said leaf being hinged along its front edge to the front edge of the hole in the stand top which the leaf is adapted to fill. C represents a sewing machine head which is fixed to this drop-leaf, the driving wheel of said head being indicated by F. D represents the driving belt, the two legs of which pass from this wheel down through slots *d* in the drop-leaf. E, E represent fixed clamp-

ing members which are permanently fixed to the under side of the drop-leaf adjacent to these slots *d*.

G represents a movable clamping device which lies on the opposite sides of the two belt legs, and is adapted, under certain conditions to be explained, to automatically clamp the belt legs to the fixed clamping members E. In the form shown the movable clamping device is a stiff wire bail pivoted in bearings *b'* on the underside of the drop-leaf, and provided with an arm *g* which, as the drop-leaf assumes its horizontal position, will engage a fixed part of the table, whereby the clamping member will be rocked in the direction which will release its grip upon the belt legs. A small spring H connected with the bail and the drop-leaf may impart to it the described clamping movement as soon as the leaf is lowered so as to carry the arm *g* out of engagement with the table A. It will be understood that this particular automatic clamp is not an essential part of the invention generically defined, and that any other suitable clamping device arranged substantially as described with respect to the belt legs and fixed to clamping members may be used in its stead, provided there is also provided some means for engaging with the table or something fixed to it for moving this clamping member in the belt releasing direction.

It is obvious that as the drop-leaf is moved down, the belt will be clamped and will thereby be held in operative engagement with the wheel F. When the leaf is in its horizontal position the belt is released and may be slipped off of the wheel and on again as the operator may desire, without any interference from the clamping device.

Having described my invention, I claim:

1. In a drop-leaf sewing machine stand, the combination of the drop-leaf thereof and having clamping members fixed to it adjacent to the driving belt, of a movable clamping member adapted to clamp the legs of the driving belt against the clamping members when the drop leaf is lowered, and means connected with the movable clamping member adapted to engage with a fixed part of a sewing machine stand as the drop-leaf is moved to its horizontal position to thereby move the clamping member in the belt releasing direction.

2. In a drop-leaf sewing machine stand, the combination of the drop-leaf thereof having clamping members fixed to it adjacent to the driving belt, with a clamping
5 frame pivoted to the under side of the drop-leaf and adapted to clamp the belt to said fixed clamping members, said frame having an arm projecting to a position to be engaged by a fixed part of the stand when the

drop-leaf is closed, and a spring for moving 10 said pivoted clamping member in the belt clamping direction.

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

CHARLES E. COLEGROVE.

Witnesses:

WM. GROTHE,
H. A. LOWES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
