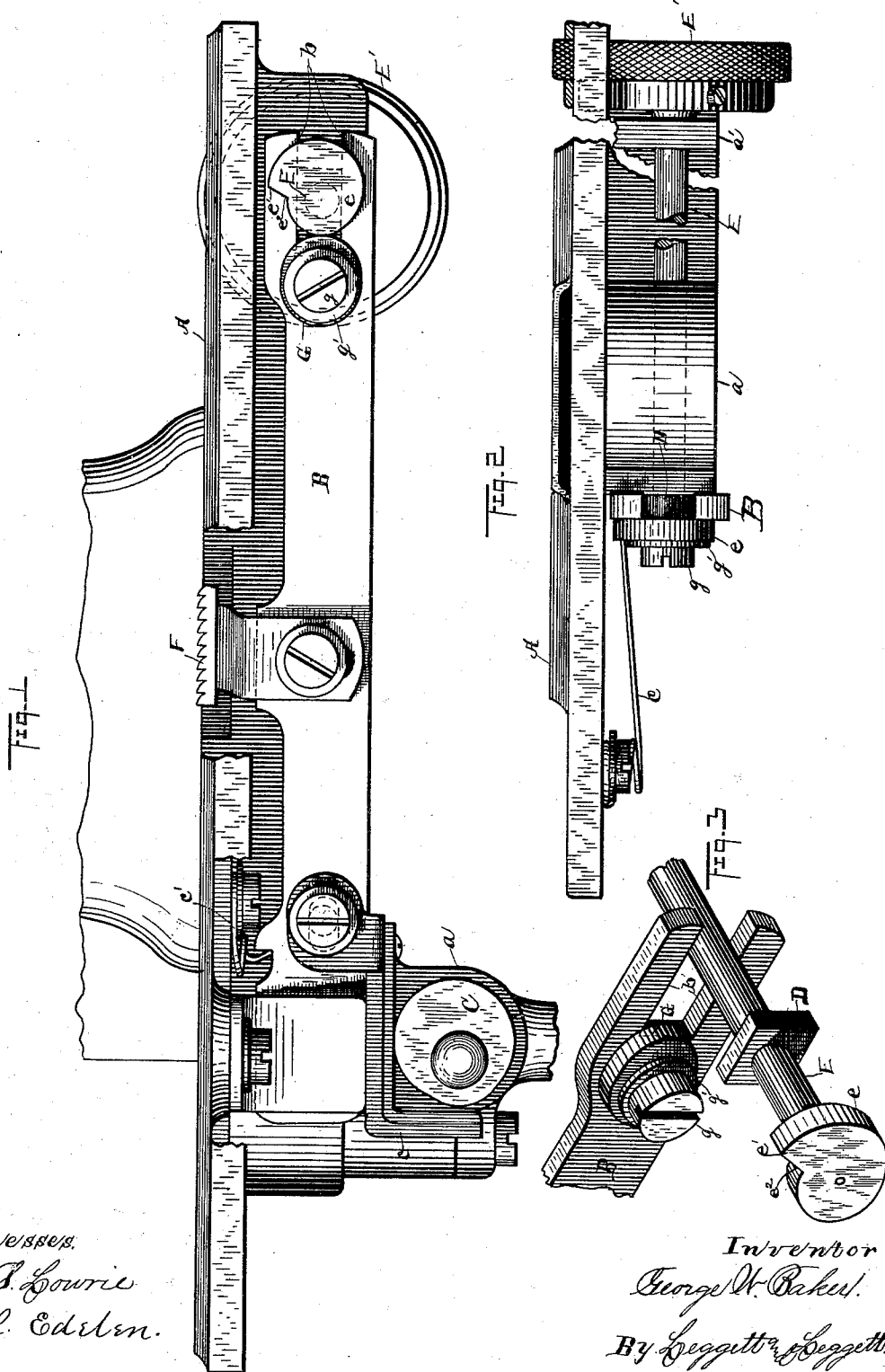


(No Model.)

G. W. BAKER.
FEEDING MECHANISM FOR SEWING MACHINES.

No. 423,111.

Patented Mar. 11, 1890.



Witnesses,
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UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF CLEVELAND, OHIO, ASSIGNOR TO THE WHITE SEWING MACHINE COMPANY, OF SAME PLACE.

FEEDING MECHANISM FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 423,111, dated March 11, 1890.

Application filed August 1, 1889. Serial No. 319,468. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BAKER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Feed Mechanism for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in feed mechanism for sewing-machines, the object being to simplify the construction and reduce the initial cost.

With these objects in view my invention consists in certain features of construction and in combination of parts, hereinafter described, and pointed out in the claim.

Figure 1 is a side elevation of the feed-bar and connected mechanism. Fig. 2 is an end elevation of the same. Fig. 3 is a view in perspective embodying my invention, but showing the parts separated.

A represents the cloth-plate of the sewing-machine, and B the feed-bar. To the under edge and near the rear end of the feed-bar is attached an angle-plate *c*, for engaging cam C, by means of which the feed-bar is elevated and advanced rearward with each revolution of the cam, the feed-bar being depressed and reversed by the action of spring *c'*. Midway of the feed-bar is attached a serrated block or feed proper F, the parts thus far being substantially as heretofore used. The forward end of the feed-bar is slotted at *b*, and a block D is nicely fitted to operate in this slot. Block D is mounted with an easy fit on spindle E, the latter serving as a fulcrum for the block. Spindle E is journaled in bosses *a a'*, depending from the cloth-plate, these bosses being pierced laterally for the purpose. Boss *a* is faced off at the outer end and constitutes a lateral bearing in one direction for the feed-bar. The lateral bearing for the other side of the feed-bar is furnished by lateral cam *e*, the latter being rigidly secured to the outer end of spindle E. On the other end of the spindle and outside of boss *a'* is mounted thumb-wheel E', for ma-

nipulating the feed. With such construction it will be seen that spindle E by means of cam *e* and wheel E' is held endwise, cam *e* holding the feed-bar and block D in position bearing against boss *a*, the feed-bar sliding on block D and the latter rocking on spindle E; both feed-bar and block having an easy fit between the opposing cam and boss. Cam *e* engages stop G of the feed-bar, the stop being preferably of felt or other soft material that will cause but little noise, the stop being secured to the feed-bar by means of screw *g* and washer *g'*. Cam *e* is of the volute variety shown and usually has about the same throw as cam C aforesaid, with the arrangement of parts such that with the point *e'* of cam *e* engaging stop G the feed-bar is thereby held so far rearward that cam C can give but little end movement to the feed-bar, and, consequently, in such position the feed is reduced to a minimum. When cam *e* is reversed by manipulating wheel E' until the heel *e''* of the cam is opposite stop G, a maximum feed is had.

Heretofore it was considered necessary to provide a cap or some mechanism to hold the forward end of the feed-bar at least in one direction laterally; but with my improved construction no cap or extra piece or pieces is necessary for such purpose, and consequently the mechanism to such extent is simplified and reduced in initial cost.

What I claim is—

The combination with stitch-regulating shaft and cam, boss depending from the cloth-plate for supporting the shaft, slotted feed-bar carrying a stop, and fulcrum-block located in the slot in the feed-bar, such block being mounted on the shaft, the block and slotted section of the feed-bar being between the said cam and boss and abutting both, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 15th day of June, 1889.

GEORGE W. BAKER.

Witnesses:

CHAS. H. DORER,
ALBERT E. LYNCH.