

(No Model.)

A. BECKER.

TAKE UP DEVICE FOR SEWING MACHINES.

No. 323,999.

Patented Aug. 11, 1885.

Fig. 1.

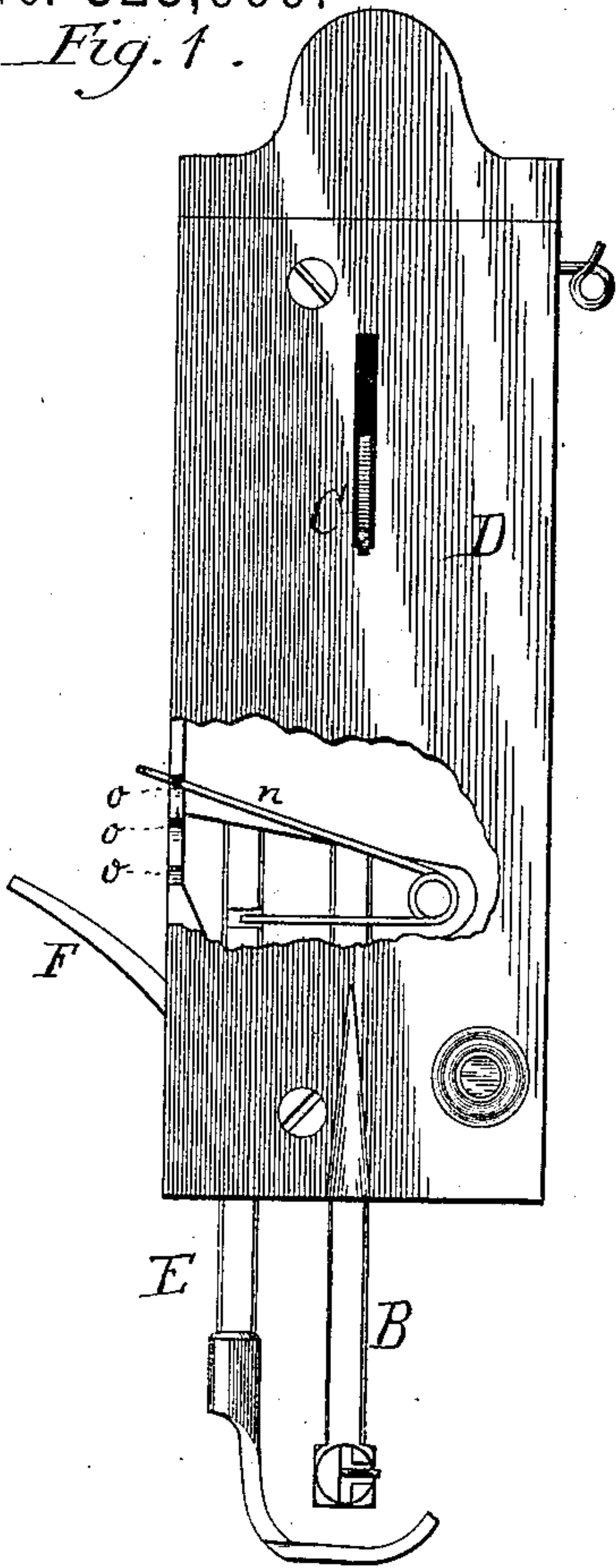


Fig. 2.

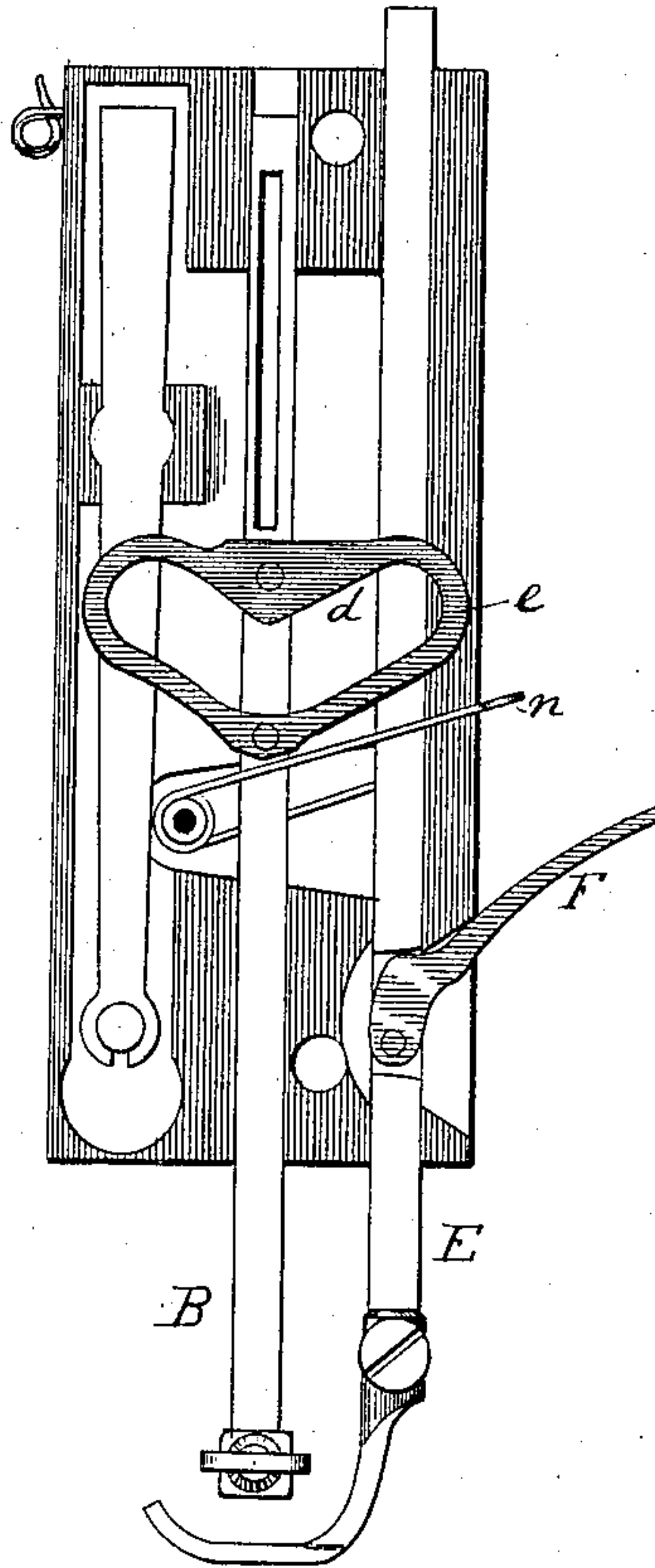


Fig. 3.

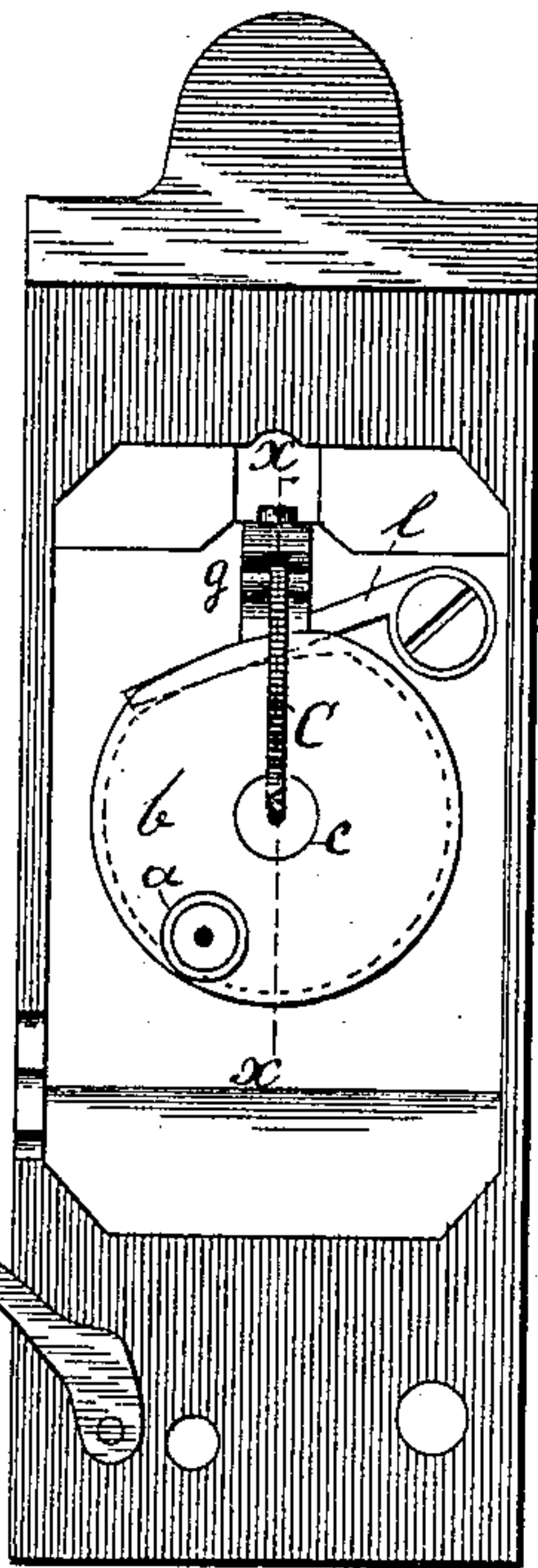


Fig. 5.

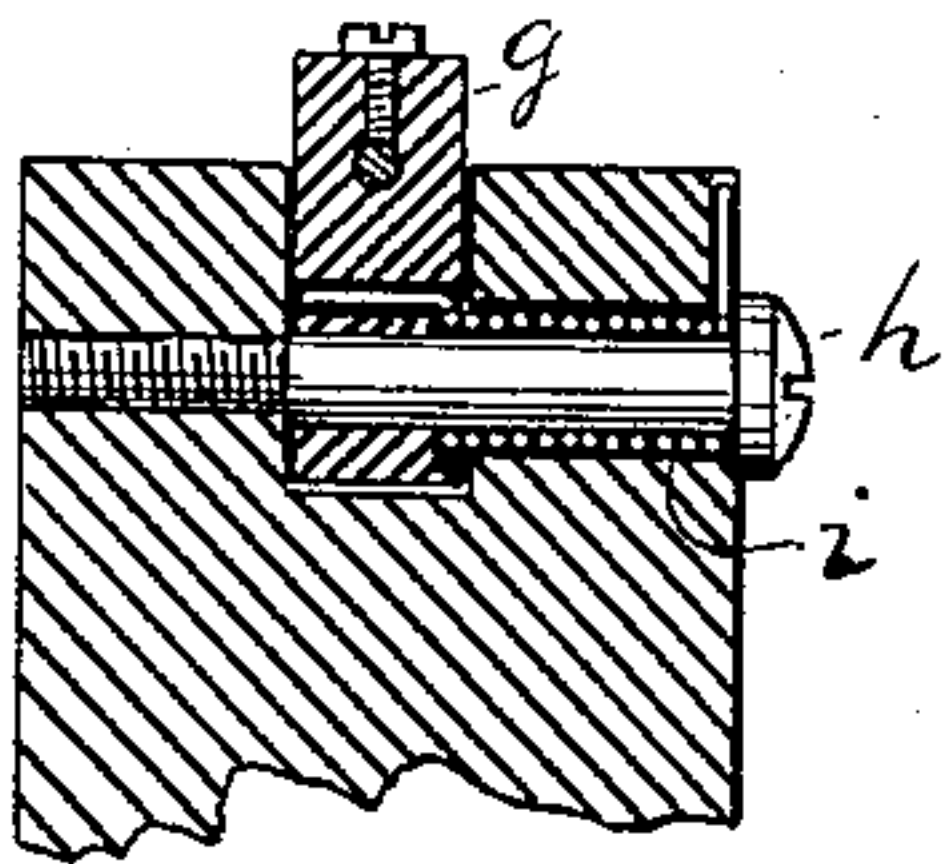
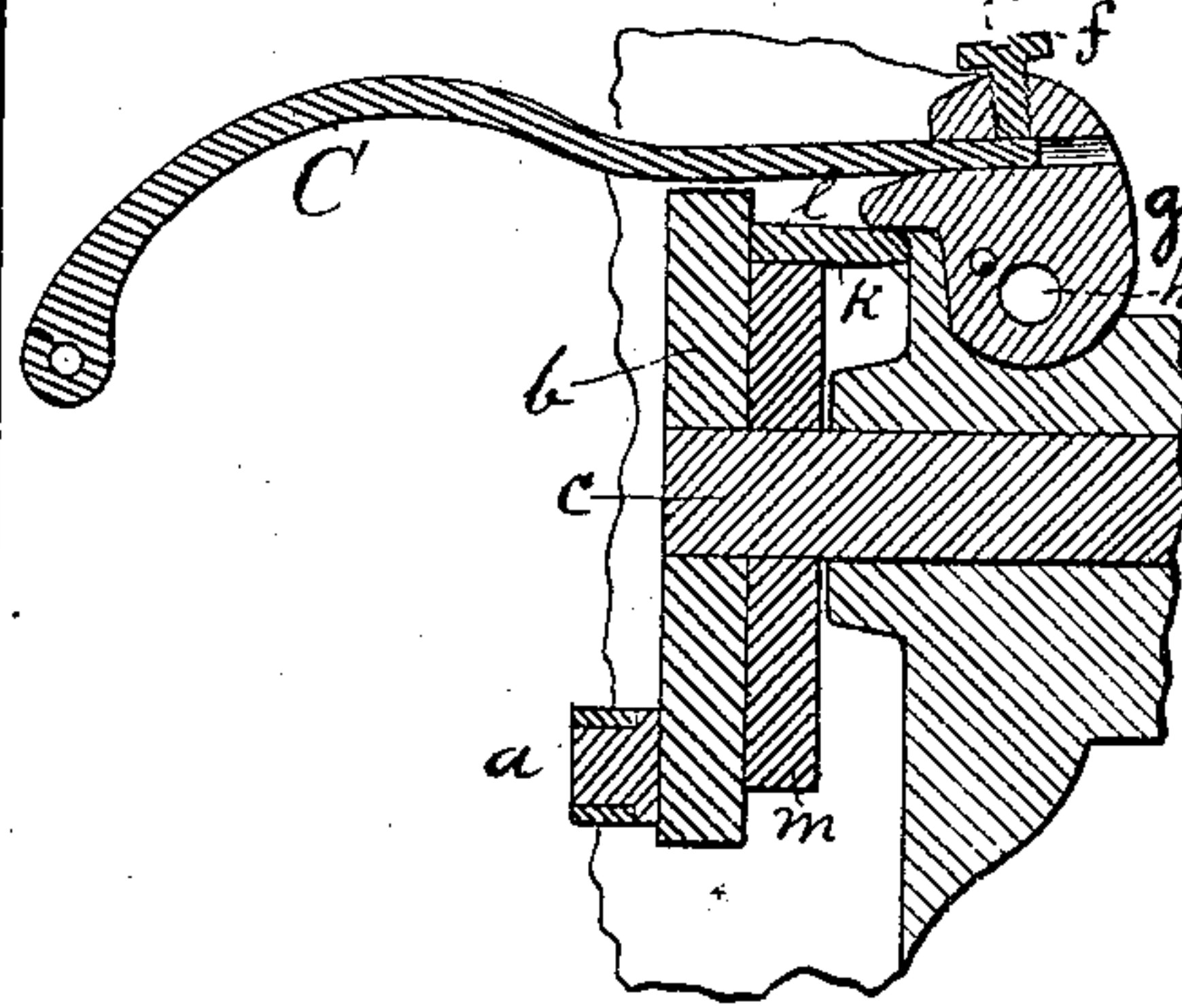


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

AUGUST BECKER, OF ARLINGTON HEIGHTS, ILLINOIS.

TAKE-UP DEVICE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 323,999, dated August 11, 1885.

Application filed September 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, AUGUST BECKER, of Arlington Heights, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Take-Up Devices for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to sewing-machines, and is adapted more especially to be applied to machines known as the "Singer Sewing-Machine," (lock-stitch.)

The object of the invention is to improve the mechanism for operating the take-up lever between the tension device and the eye of the needle.

To the accomplishment of the above the invention consists of the certain novel devices and combination of devices hereinafter described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a front elevation of a casing formed on the front end of the goose-neck of the machine, and in which the needle and pressure bars are situated, the front plate of said casing being partly broken away. Fig. 2 is a vertical section of the same; Fig. 3, a view of the same with the parts inclosed therein removed and showing the position of the main shaft; Fig. 4, a section on line *xx* of Fig. 3; Fig. 5, a section on line *qq* of Fig. 4.

Like letters refer to like parts in each view.

As in the Singer machine, mine is provided with a bed-plate, upon which is mounted a goose-neck or overhanging arm. (Not shown.) Motion is imparted to the needle-bar B from a pin, *a*, formed on a crank-disk, *b*, located on the end of a horizontal shaft, *c*, this pin entering a heart-shaped groove, *d*, in a block, *e*, attached to said needle-bar. The take-up lever C consists of an arm curved, as shown, and provided on its outer or free end with an eye through which the thread is passed to the needle. This lever is passed through suitable slots made in the needle-bar and through the front face of casing D, which is cast upon the front end of the goose-neck, said lever being secured by a screw, *f*, or other suitable means, in a vibrating hub, *g*,

situated in a slot formed in the rear of casing D, and mounted on a screw, *h*, passed through said slot. A spring, *i*, is coiled around screw *h* to press the lever down, one end of said spring entering a slot made in hub *g*, and the other in a slot formed in casing D, at one side of the slot, in which hub *g* is pivoted. Hub *g* is formed with a lug, *j*, which is formed directly below lever C, and which rests when in position upon a projecting lug, *k*, formed on the edge of a hinged arm, *l*, said arm resting upon a cam-surface, *m*, formed on the rear face of crank-disk *b*, so that upon the revolution of the shaft *c* and the crank-disk *b* the take-up lever will be raised and lowered at certain intervals. E represents the pressure-bar; F, the lever for operating the same; *n*, a spring for applying the pressure thereto, and *o* notches made in the plate D to accommodate said spring.

I am aware of the existence of Letters Patent No. 183,678, issued on October 24, 1876, to J. Jamieson, in which a branch arm of the take-up lever is arranged to contact with a cam-surface to operate such take-up lever, but in which the take-up lever is not mounted in a vibrating hub, and in which there is no arm interposed between such a hub and the cam-surface, and therefore I lay no claim to such a construction.

I am also aware of the existence of Letters Patent No. 136,324, issued February 25, 1873, to J. T. Jones, in which the pivot-pin of the take-up lever is provided with an arm arranged to contact with a cam-surface to operate such lever, and therefore I expressly disclaim such an arrangement; but

What I claim is—

The combination, with vibrating-hub *g*, provided with lug *j* and mounted on screw *h*, provided with spring *i*, and take-up lever C, removably mounted in said hub, of disk *b*, provided with cam-surface *m*, and lever *l*, located between cam-surface *m* and lug *j*, said lever being pivoted in plate D and entirely independent of the take-up lever, as set forth.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

AUGUST BECKER.

Witnesses:

A. W. OBERMANN,
M. J. CLAGETT,