

(No Model.)

J. F. WINCHELL.

SEWING MACHINE NEEDLE ATTACHMENT.

No. 290,161.

Patented Dec. 11, 1883.

Fig. 1.

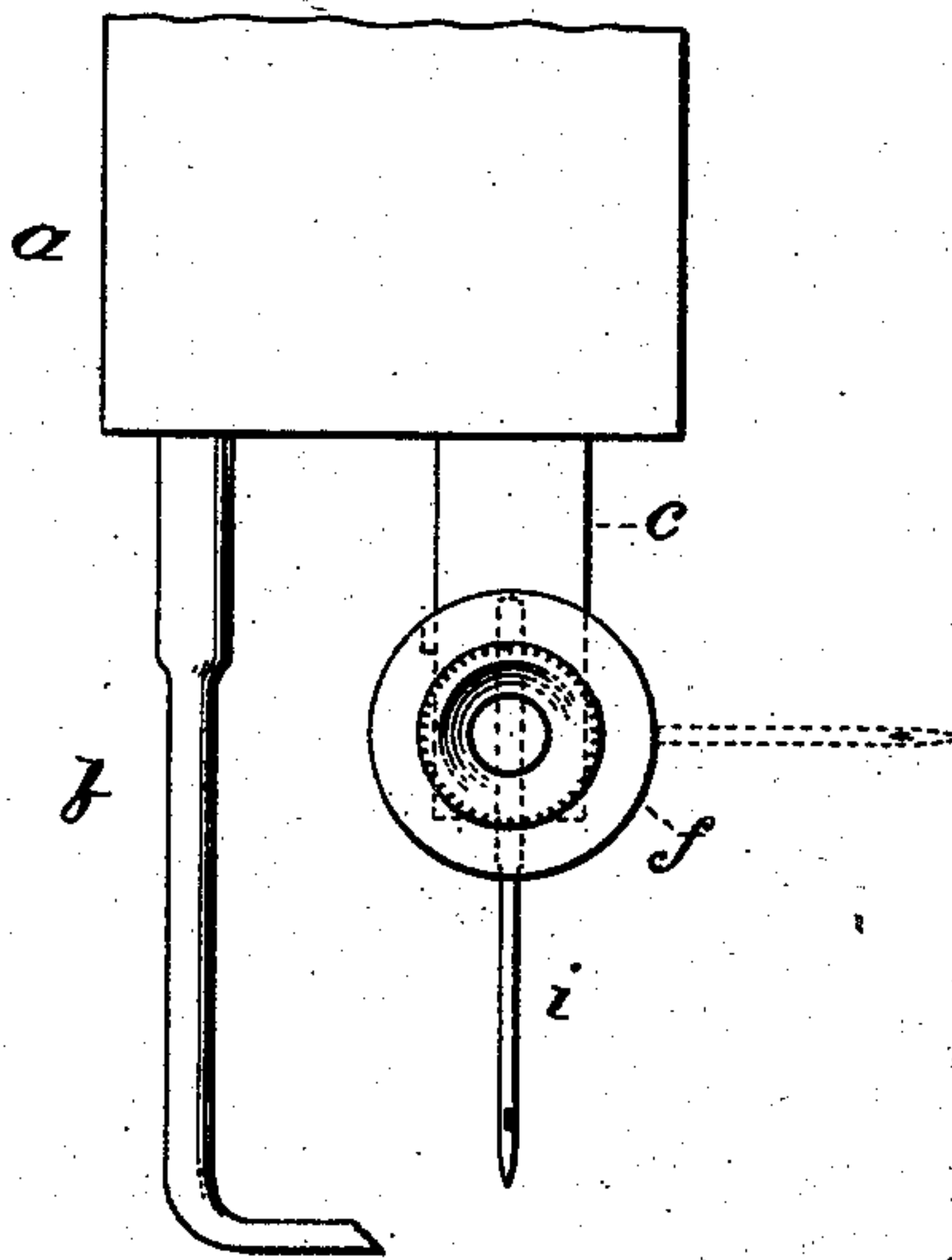


Fig. 2.

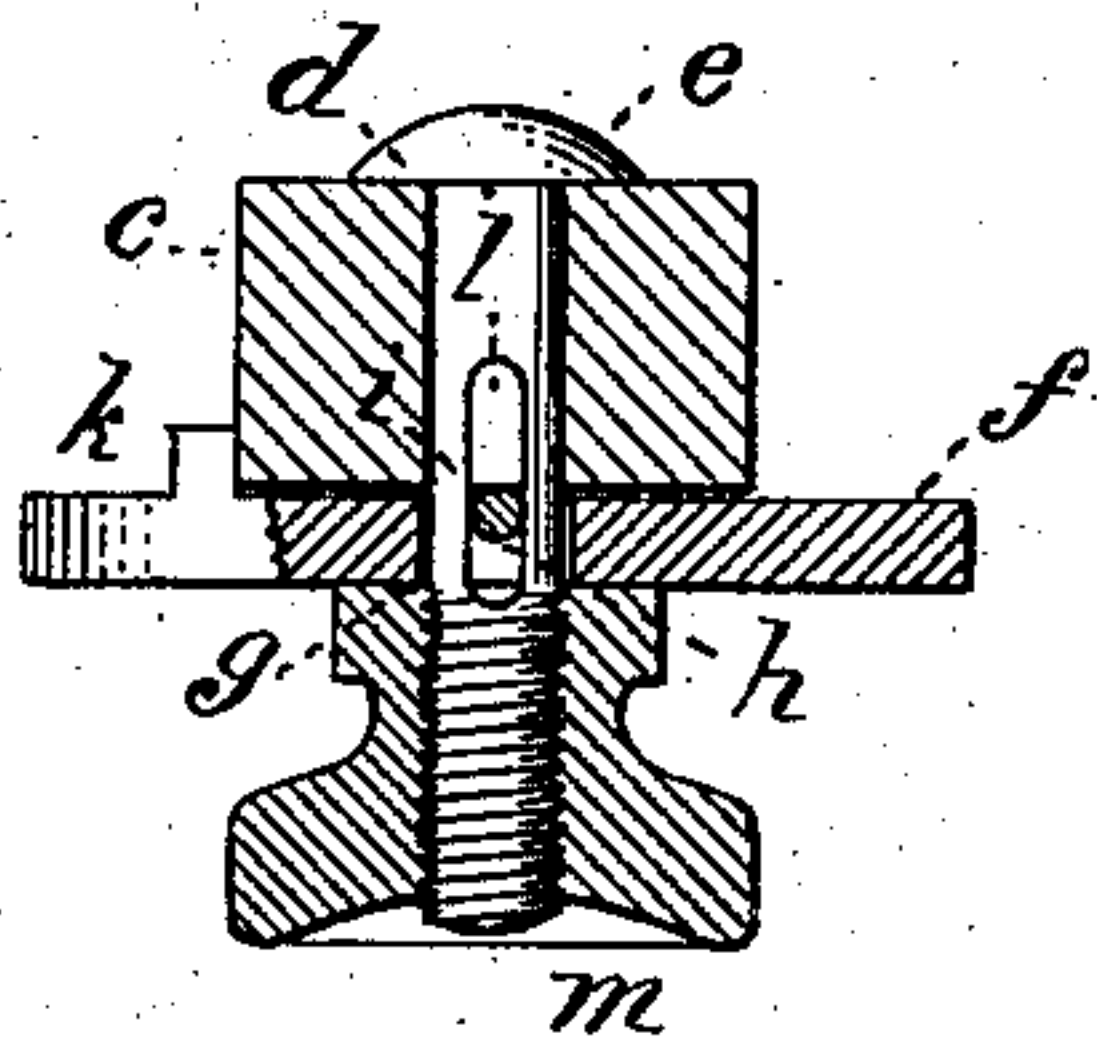


Fig. 3.

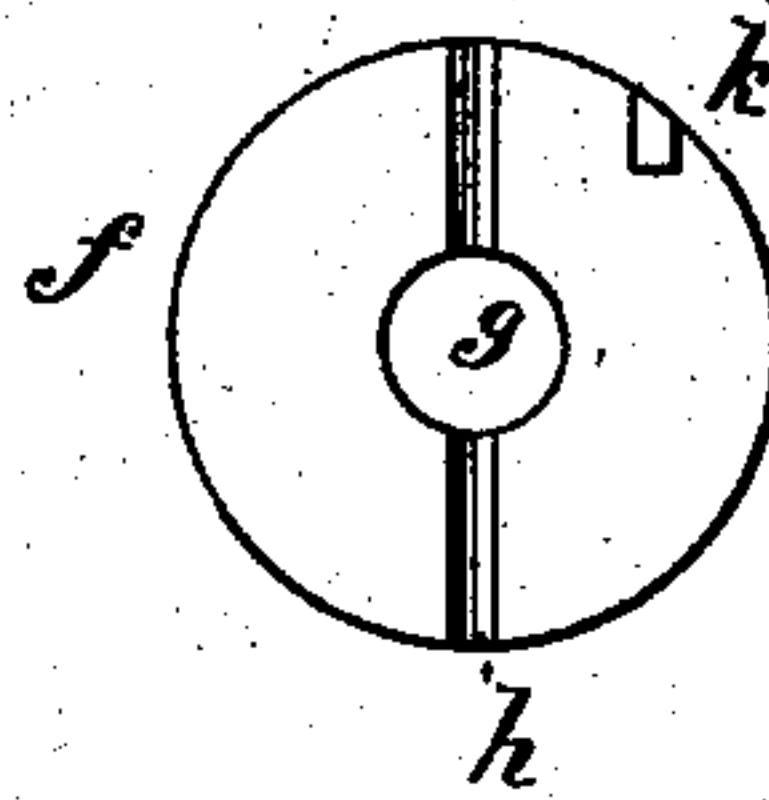
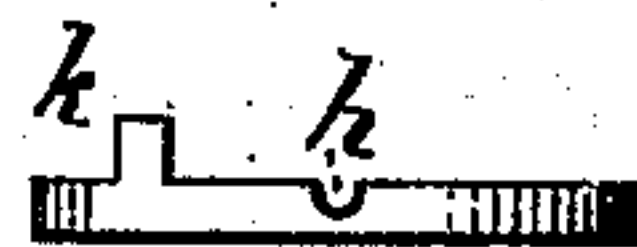


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES F. WINCHELL, OF SPRINGFIELD, OHIO.

SEWING-MACHINE-NEEDLE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 290,161, dated December 11, 1883.

Application filed September 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. WINCHELL, a citizen of the United States, residing at Springfield, in the county of Clarke and State of Ohio, have invented certain new and useful Improvements in Sewing-Machine Attachments; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of an end elevation of the machine-arm, the presser-foot, and improved attachment. Fig. 2 is a horizontal sectional view of the attachment. Fig. 3 is a rear face of the disk, showing the groove and stop-bearing. Fig. 4 is an edge view of the same.

This invention has relation to sewing-machine attachments; and it consists in the construction and novel arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claim appended.

The object of this invention is to so arrange the needle with relation to the needle-bar in any sewing-machine that it may be held rigidly in its perpendicular working position, and to also permit it to be turned up at a right angle to the working position, to afford ease in threading the needle, and also, when desired to leave the needle in this raised or turned position, so that should children or inexperienced persons operate the machine while in the raised position no damage will be done to the needle or thread.

Referring by letter to the accompanying drawings, in which I have shown sufficient to illustrate my invention, *a* designates the arm of the sewing-machine, *b* the presser-foot, and *c* the needle-bar. The needle-bar *c* is provided near its lower end with a hole, *d*, for the reception of a slotted screw-bolt, *e*, which passes from the inner face through the hole outwardly. A disk, *f*, having a central hole, *g*, for the passage of the slotted bolt *e*, has a diametrical groove, *h*, which is not quite as deep as the thickness of the head of the needle *i*. This groove *h*, when the disk and needle

are in their normal positions—*i. e.*, when the needle is in the working position—is a vertical groove. This disk *f* is provided with a stud, *k*, at one side of the groove *h*, which prevents the needle from being moved back beyond the vertical or working position after having been moved from said position. The needle *i* passes down through the slot *l* in the screw-bolt *e*, and is engaged for a portion of its length near its head by the groove *h*. A thumb-nut, *m*, is screwed upon the threaded portion of the bolt *e*, which projects beyond the disk *f*, and when turned up to place holds the needle firmly in position.

When it is necessary to thread the needle, it can be readily done by loosening the thumb-nut and turning the disk and needle up to a position at a right angle to its normal position, when it will not be necessary to stoop down to sight the eye of the needle. Further, when it is desired to leave the machine, the operator can turn the needle to the position for threading it, screw up the thumb-nut, and leave the needle in this position, so that should a child or other inexperienced person operate the treadle no damage will be done to the needle or thread. In this construction there is a saving in needles and in the labor of threading them. It is accurate in its adjustments, and is not liable to get out of order.

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

In a sewing-machine attachment, the combination, with the perforated needle-bar *c*, of the perforated grooved disk *f*, provided with the stop-bearing *k*, the screw-bolt *e*, having the slot *l*, for the passage of the needle, and the thumb-nut for securing the needle between the grooved disk and the needle-bar, so that the needle may be turned at or nearly at a right angle to a vertical position, substantially as specified.

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

JAMES F. WINCHELL.

Witnesses:

THEO. MUNGEN,
JOSEPH DORSEY.