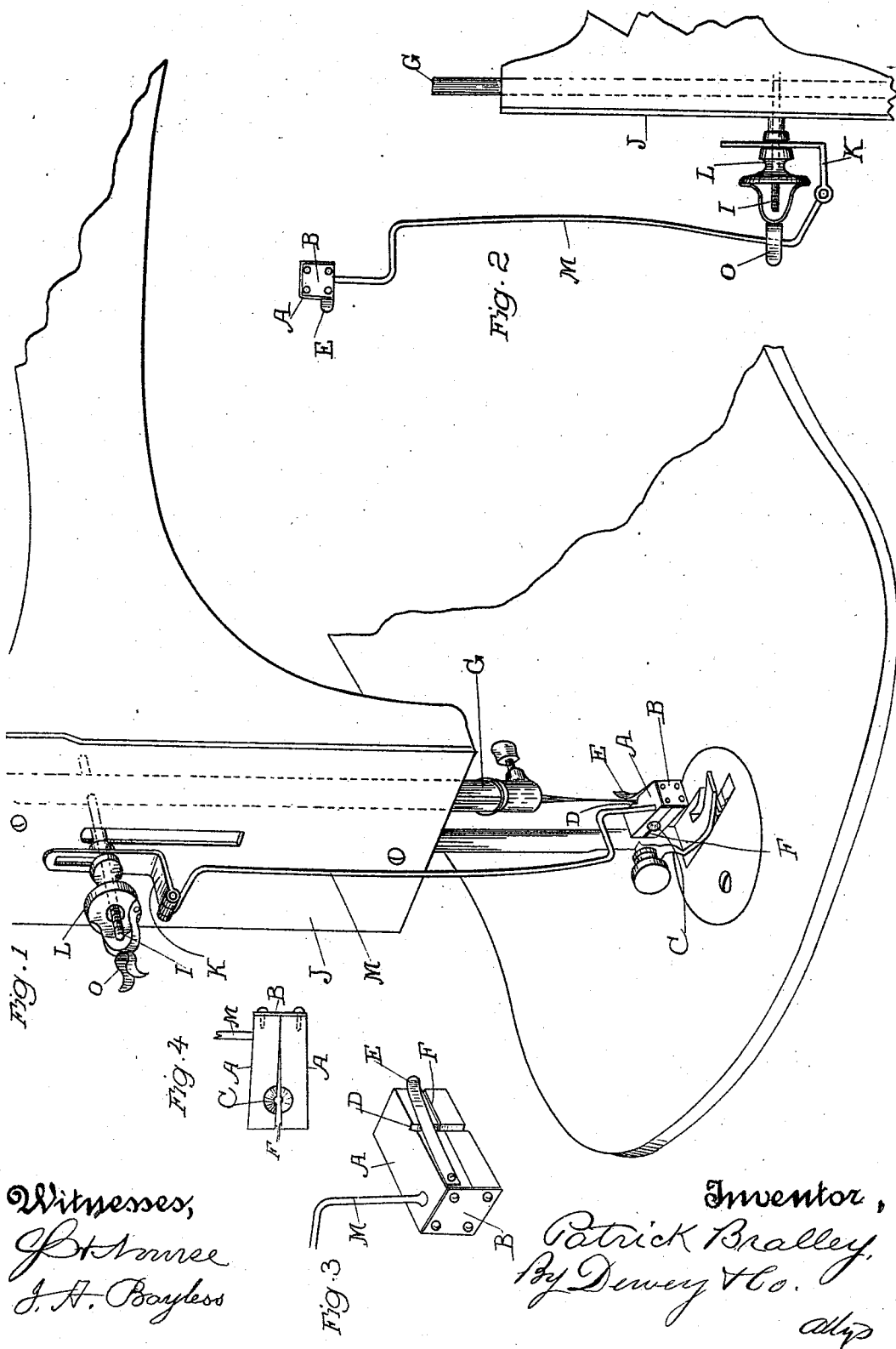


(No Model.)

P. BRALLEY.
SEWING MACHINE NEEDLE THREADER.

No. 529,586.

Patented Nov. 20, 1894.



Witnesses,
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UNITED STATES PATENT OFFICE.

PATRICK BRALLEY, OF OAKLAND, CALIFORNIA.

SEWING-MACHINE-NEEDLE THREADER.

SPECIFICATION forming part of Letters Patent No. 529,586, dated November 20, 1894.

Application filed May 1, 1894. Serial No. 509,689. (No model.)

To all whom it may concern:

Be it known that I, PATRICK BRALLEY, a citizen of the United States, residing in Oakland, Alameda county, State of California, have invented an Improvement in Sewing-Machine-Needle Threaders; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a device for threading the needles of sewing machines.

It consists in certain details of construction which will be more fully explained by reference to the accompanying drawings.

Figure 1 is a perspective view of my needle threader in position. Fig. 2 is a side view showing it turned up and held out of the way after the needle is threaded. Fig. 3 is an enlarged perspective view of the needle threading block. Fig. 4 is a side view of the block, the two parts that form it being opened.

The object of my invention is to provide a device which is adjustable with relation to the needle and needle bar, so hinged that it may be turned up out of the way when not in use, and readily turned down to clasp the needle, having a hole through it which exactly coincides with the eye of the needle, and serves as a guide to direct the thread through the eye, the device being made in two separable parts which will open automatically by a little pull, to allow the device to be moved away, leaving the needle and thread in position for use.

A is my needle threading block. It consists of two parts fitted accurately together and having one end secured to a flat elastic steel plate B which normally holds the two parts with their adjacent faces lying together like a single block. Between these two, near the end opposite to the attachment B, is made a tapering hole or countersink C terminating in a very fine hole upon the opposite side, into which the tapering portion guides the thread. Upon the opposite side of the block is a vertical groove or channel D with a spring plate E fixed to one side and extending over this groove or channel, so that when the device is properly adjusted, the needle lies in this groove or channel and is held in place by the spring E, so that its eye is exactly in line with the hole C, and a thread introduced into this hole, will be directed through the eye of the

needle. The threading device is then pulled to one side, the thread being held by the hand, and by means of a little groove or channel F extending outward from the side of the hole C and between the two pieces A, the thread is enabled to pass between these plates and separate them enough so that when they are drawn to one side the thread and needle will be left in readiness for use.

In order to properly adjust the device, I have attached it to the vertically reciprocating needle bar G by making a hole through this bar, and a corresponding slot is made through the rear of the arm of the machine, and this allows a screw I to be passed through the hole in the needle bar, and it extends out through the plate J upon the front of the arm. To this projecting end of the screw is secured the bent arm K slotted to allow the screw to pass through, and having a locking nut L by which it is secured at any desired point. To the lower arm is hinged a rod or wire M which extends downward and carries the needle threading block A at its opposite end, so that when the block A is disengaged from the needle, it may be swung upward around the hinge point of the rod and held by a clasp O. When it is to be used it is turned downward and by springing it a little to one side, it can be pushed over the needle so that the needle lies in the vertical channel D and the spring E clasps and holds it in place as described.

The vertical adjustment of the device is made by means of the screw I and locking nut L before described, the slotted arm being slipped up or down until the hole in the threading device is exactly opposite the eye of the needle. It is then locked firmly by the nut L, and when this is done, everything is complete and in readiness for use at any time.

The device being attached to the needle bar, reciprocates with it and there is no change in its position relative to the needle. By its use, the finest needle can be easily threaded without difficulty.

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

1. A threading device for sewing machine needles consisting of a block having a hole or perforation adapted to coincide with the eye of the needle, an arm, to the lower end

of which the block is secured, and means for adjustably securing said arm and block to the needle bar consisting of a slotted plate fitted to the arm of the machine and having its lower end connected by a hinged joint with the upper end of the arm which carries the block, a screw projecting from the needle bar through a slot in the arm of the machine, and through the slot in said plate, and a locking nut for adjustably securing said plate, and provided with means for maintaining the block elevated when not in use.

2. A needle threading device for sewing machines consisting of a block having a hole or perforation adapted to coincide with the eye of the needle and direct the thread there-through, an arm carrying the block at its lower end, a slotted plate fitted against the arm of the machine having its lower end bent outwardly and hinged to the upper end of the arm which carries the block, about which hinge the device may be turned down for use and up out of the way when not in use, a screw pin from the needle bar passing through a slot in the arm of the machine and through the slot in the plate, and a nut engaging said

pin and adjustably securing the slotted plate, said nut being provided with a clamp into which the block carrying arm may be placed and maintained in an elevated position. 30

3. A device for threading sewing machine needles consisting of a two part block, a spring plate at one end of the block by which the two parts are normally held together, a tapered opening or hole made partially in each block between the meeting faces thereof, a vertical channel into which the smaller part of the hole opens upon the opposite side, said channel being adapted to fit the needle, and a spring plate between which and the block, the needle passes, whereby it is retained in the channel with the eye in line with the hole of the threading block and means for holding the device elevated and in an inverted position when not in use. 35 40 45

In witness whereof I have hereunto set my hand.

PATRICK BRALLEY.

Witnesses:

S. H. NOURSE,
GEO. H. STRONG.