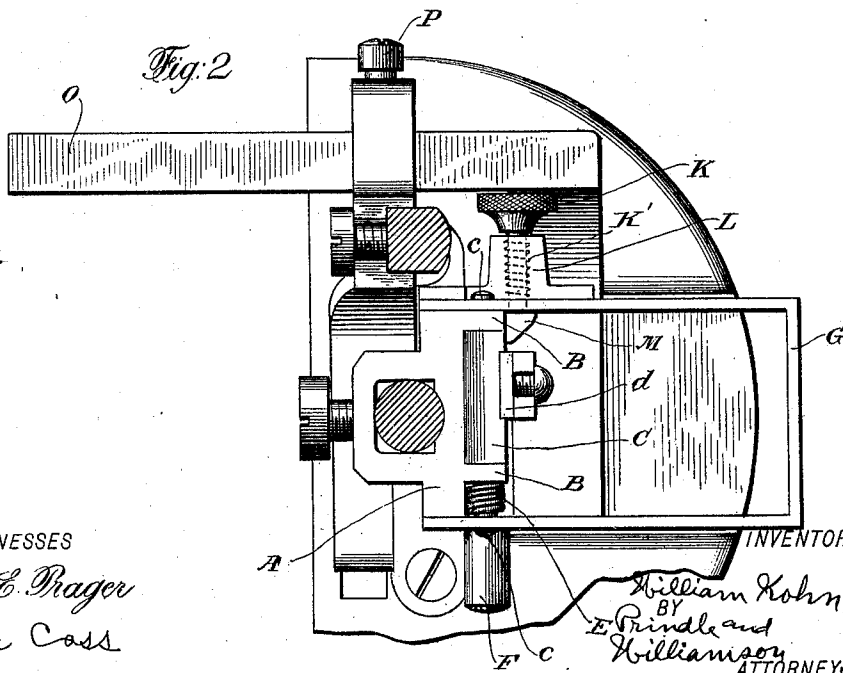
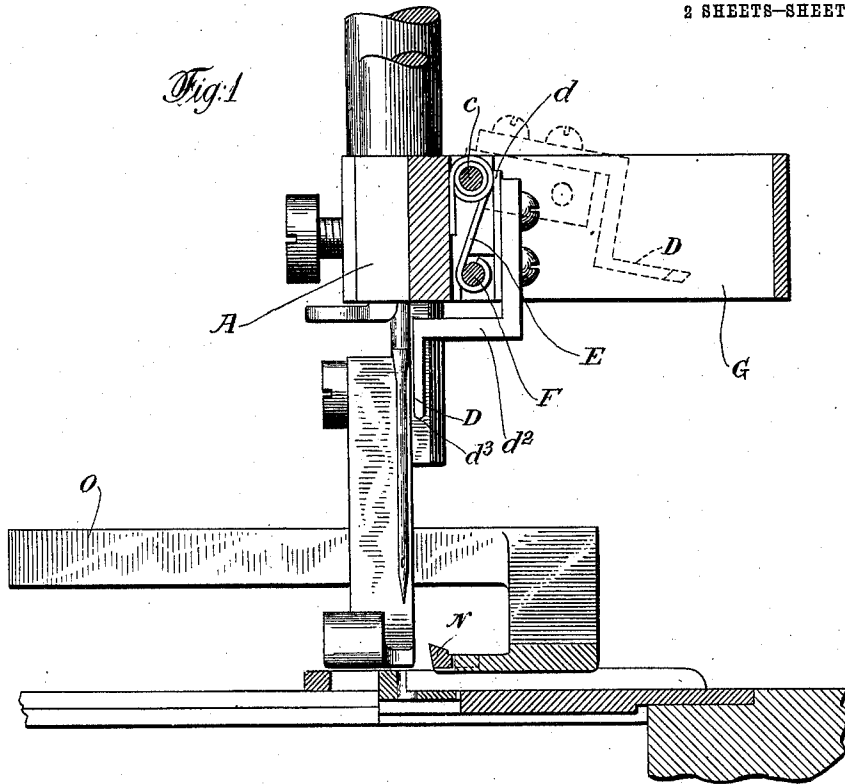


W. KOHN.
 TRIMMING ATTACHMENT FOR SEWING MACHINES.
 APPLICATION FILED MAR. 29, 1907.

985,115.

Patented Feb. 21, 1911.
 2 SHEETS—SHEET 1.



WITNESSES
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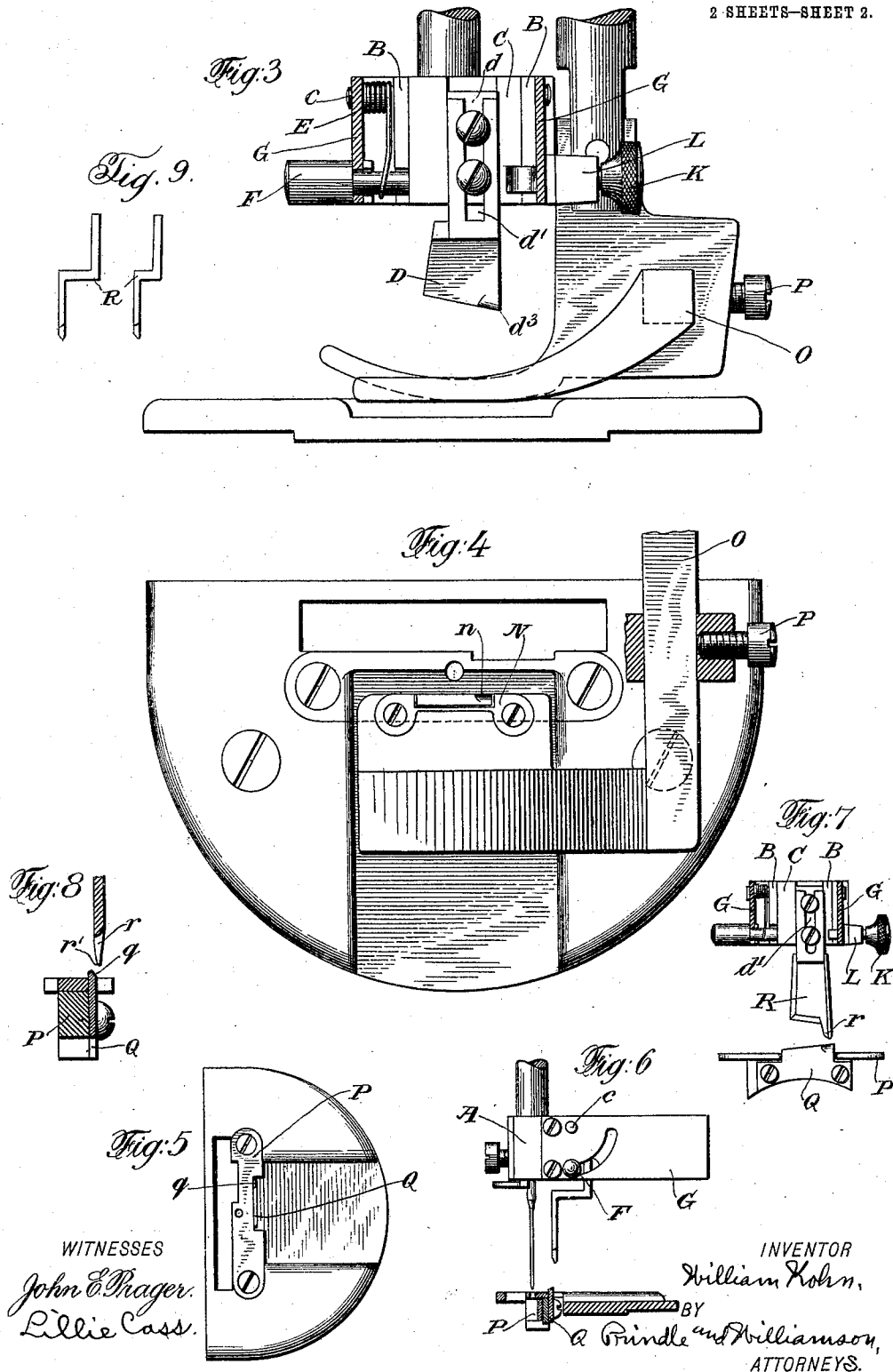
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UNITED STATES PATENT OFFICE.

WILLIAM KOHN, OF BROOKLYN, NEW YORK.

TRIMMING ATTACHMENT FOR SEWING-MACHINES.

985,115.

Specification of Letters Patent.

Patented Feb. 21, 1911.

Continuation of application Serial No. 312,319, filed April 18, 1906. This application filed March 29, 1907.
Serial No. 365,394.

To all whom it may concern:

Be it known that I, WILLIAM KOHN, of Brooklyn, in the county of Kings, and in the State of New York, have invented a certain new and useful Improvement in Trimming Attachments for Sewing-Machines, and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation, partly in section, of the needle-bar, throat-plate, presser-foot and related parts of a sewing machine, having that form of my attachment applied thereto which is adapted to trim the upper layers of fabric being sewed, without trimming the lower layers; Fig. 2 is a plan view of Fig. 1; Fig. 3 is a side elevation of Fig. 1; Fig. 4 is a plan view of the presser-foot and throat-plate; Figs. 5 to 8 are views of that embodiment of my invention in which all of the layers of the fabric that is being sewed are trimmed, Fig. 5 being a plan view of the throat-plate with attached knife, Fig. 6 being a front elevation, partly in section, of the entire attachment and related parts of the sewing machine, Fig. 7 being a side elevation of the parts forming my attachment, and Fig. 8 being a vertical, sectional view of the knives; and Fig. 9 is a view of a series of upper knives having different degrees of offset.

The object of my invention has been to provide a cutting attachment for sewing machines, which shall be adapted to permit cutting to be begun or discontinued at any point during the sewing, and which shall also if desired, enable the upper one of several layers of cloth to be cut without injuring the cloth beneath; and to such ends my invention consists in the trimming attachment for sewing machines hereinafter specified.

In carrying my invention into practice, as illustrated in Figs. 1 to 4, I provide a frame that is adapted to be secured to the needle-bar, such frame having a socket provided with a screw, by which it can be clamped on the needle bar. The frame A, is provided with ears B, between which is pivoted a plate C, to which the knife D, is adapted to be secured. The pivot *c*, of the plate C, carries a spring E, wound about such pivot, and bent around a handle F, extending from the side of the plate. The spring normally tends

to hold the plate C, and with it the knife in an elevated position so that the knife will not cut. A guard G, is secured to the frame A, in such position that it surrounds and protects the knife when the knife is in its inoperative position. The handle F may conveniently extend through a slot in the guard. In order to hold the knife in vertical and operative position, a latch K, is provided, the latch being conveniently mounted in a socket L, secured to the guard. The latch preferably consists of a beveled head M, over whose bevel the plate C, is adapted to ride when passing to vertical position, the head having a stem extending through the socket, a spring K' being coiled about the stem in the socket, tending to force the head toward the plate C. The latch has a knob by which it may be retracted. The knife preferably consists of a plate *d*, and a slotted shank *d*¹, connected by a neck *d*². The knife D, is adapted to cut against a knife N, secured to a plate carried by an arm extending from a bar O, the latter passing through a horizontal socket, formed in the presser foot, and being secured in adjusted position by a screw P. In order to enable cutting to be done at different distances from the needle, I provide a series of knives D, having necks *d*², of different lengths, so that the blade will stand in proper relation to the lower knife wherever that may be placed. As the knife D, rises out of contact with the knife N, at every stroke of the needle bar some special means is required that will enable these knives to press against each other during cutting, and yet that will prevent their breaking against each other as they come together. I form the cutting edge of the knife D, at an angle to the horizontal, and then bevel the lower point of the knife at *d*³ slightly, and form a corresponding bevel *n*, on the knife N. I am then enabled to adjust the knives so that they press firmly against each other during cutting, and yet when they come together after having been separated, they do not break because the bevel *d*³, rides laterally on the bevel *n*, and thus guides the knives into proper relation. I regard this as a very important feature of my invention.

In the use of my attachment, as illustrated in Figs. 1 to 4 for instance, in sewing a strap to the outside of a garment, or in sewing

down the edges of cloth which has been opened to uncover lace that has previously been sewed to the cloth, the knife D, is secured in its vertical position, and the plate 5 carrying the knife N, is set on top of the garment, and beneath the edge of the strap to be sewed and trimmed. The machine is then set in motion, and as the seam is formed, the knife D, cuts the edge of the strap at 10 each stroke of the needle bar, and the length of its effective cutting stroke is so short that it does not pass below the bottom of the plate carrying the knife N, and therefore does not injure the lower fabric. It will cut on a 15 curve as well as on a straight line.

That form of my invention which is illustrated in Figs. 5 to 8 is intended for use where it is desired to cut entirely through all of the fabrics being sewed. It differs 20 only in the following particulars: A removable throat plate P, is secured in the table of the machine, and a removable lower knife Q, is secured to the plate P. The upper knife R, preferably has the same shank and neck 25 as the knife D, but on its lower edge it is provided with a finger r^1 , on which the bevel r^1 , is formed, that co-acts with the bevel q , on the lower knife Q. The finger r^1 , helps the knife to enter the goods, and is especially 30 useful with heavy goods.

In using that form of my invention illustrated in Figs. 5 to 8 if, for instance, a workman desires to sew the edges of a hip pocket, and at the same time cut the pocket-opening 35 in the trousers, he places the goods under the machine, turns the knife upward, and begins to sew. He may, if desired, begin the seam some distance before he begins to cut. The knife remains down and the cutting continues until the pocket opening has 40 been cut the desired length, when the knife is raised to inoperative position by means of the handle, and the sewing can continue. Its ability to begin cutting or stop cutting 45 at any desired point is a great advantage.

I realize that my invention is capable of embodiment in different forms and I desire not to be limited beyond the requirements of the prior art or the necessary intentment of 50 my claims.

This application is a continuation of my application No. 312,319, filed April 18th, 1906, this present application containing the invention of the earlier application, with 55 certain improvements, and the earlier application having been abandoned in favor of the present application.

I claim:—

1. The herein-described trimming attachment 60 ment for a sewing machine, comprising a member adapted to be secured to the needle bar, a support pivoted to said bar and adapted to be held in different positions, a blade adjustably connected to said support and 65 adapted to be held parallel with the needle,

a lower part adapted to be supported by the table of the machine, and a second blade detachably secured to said lower part, and with which the first-named blade coöperates, said second blade having a cutting edge formed 70 by the meeting of upper and side surfaces inclined to the path of movement of the first-mentioned blade.

2. A trimming attachment for a sewing machine, comprising a device adapted to be 75 secured to the needle bar and movable therewith, said device being provided with a vertically adjustable blade adapted to be held in a vertical position parallel with said needle bar, means for holding said blade in 80 different positions, a lower part adapted to be supported by the table of the machine, and a second blade secured to said lower part at a predetermined distance from the needle and with which the first-named blade co- 85 operates, said last-named blade having a cutting edge formed by the meeting of upper and side faces inclined to the path of movement of the first-named blade.

3. A trimming attachment for sewing 90 machines, comprising a holder adapted to be secured to the needle bar, a support hinged to said holder, a blade adjustably secured to said support, means for holding said support and said blade in a vertical position, 95 and also at an angle to the needle bar, a lower part adapted to be supported by the table of the machine, and a lower blade adapted to be detachably secured in a vertical position to said lower part. 100

4. An edge trimming attachment for sewing machines, comprising a holder adapted to be secured to the needle bar and provided with a hinged support, a blade adjustably secured to said support, means for holding 1 said support and said blade in a vertical position and at an angle to said needle bar, and a vertically placed detachable lower blade.

5. In a trimming attachment for sewing machines, the combination of a knife pivoted to the needle bar, and adapted to be placed either in a vertical operating position, or in a horizontal inoperative position, and a guard carried by the needle bar and adapted to surround said knife when in the latter position.

6. In a trimming attachment for sewing machines, a member adapted to be secured to the needle bar, a knife pivoted to said member, a fastening adapted to secure said knife in a vertical position, and means adapted to hold the knife in a horizontal position.

7. In a trimming attachment for sewing machines the combination of a frame adapted to be secured to the needle bar, a plate pivoted to said frame, a knife detachably secured to said plate, a latch for securing said knife in a vertical position, a spring

tending to hold said knife in a horizontal position, and a guard surrounding said knife when in its horizontal position.

8. In a trimming attachment for sewing machines, the combination of a knife adapted to be secured to the needle bar, and a lower knife with which said first-mentioned knife is adapted to cut, the cutting edges of said knives being oblique to each other to produce the usual shearing action, and one of said knives being beveled at the points where the knives first meet so that said oblique cutting edges are prevented from striking against each other but caused to pass each other.

9. In a trimming attachment for sewing machines, the combination of a knife adapted to be secured to the needle bar, a lower knife with which said first-mentioned knife is adapted to cut, the cutting edges of said knives being oblique to each other to produce the usual shearing action, and the meeting points of said knives being beveled or slightly inclined to the path of movement of the upper knife, so that said knives shall be prevented from striking each other and shall be caused to pass each other.

10. In a sewing machine, the combination of a needle bar, an upper knife adapted to be secured to the needle bar, a lower knife, a work support for the goods being sewn, and a presser foot for supporting said lower knife at a distance from said work support and from the bottom of the presser foot to leave an unobstructed space between the knife and work support and presser foot.

11. In a sewing machine, the combination of a needle bar, an upper knife pivoted to the needle bar, a lower knife, a work support and a presser foot for supporting said lower knife at a distance from said work support and from the bottom of the presser foot to leave an unobstructed space between

the knife and work support and presser foot.

12. In a trimming attachment for sewing machines, the combination of a knife adapted to be secured to the needle bar, said knife being immovable relative to the needle bar when cutting, a lower knife provided with means rendering it capable of lateral adjustment to and from the knife upon the needle bar, and a support carried by the presser foot for said lower knife.

13. In a trimming attachment for sewing machines, the combination of an upper knife pivoted to the needle bar, said knife being immovable relative to the needle bar when cutting, and a lower knife rigidly carried by the presser foot, and provided with means rendering it capable of lateral adjustment to and from the knife upon the needle bar.

14. In a trimming attachment for sewing machines, the combination of a member secured to the needle bar, a plate pivoted to said member, a series of knives, each of which is adapted to be secured to said plate, said knives having different degrees of offset, a support carried by the presser foot, and laterally adjustable thereon, and a lower knife carried by said support.

15. In a trimming attachment for sewing machines, the combination of a plate adapted to be secured to the needle bar, a series of knives, each of which is adapted to be secured to said plate, said knives having different degrees of offset, and a laterally adjustable lower knife adapted to cooperate with said upper knife.

In testimony that I claim the foregoing I have hereunto set my hand.

WILLIAM KOHN.

Witnesses:

EDWIN J. PRINDLE,
LILLIE CASS.