

No. 618,977.

Patented Feb. 7, 1899.

C. BAUMANN.
SEWING MACHINE TRIMMER.

(Application filed Jan. 28, 1898.)

(No Model.)

Fig. 3.

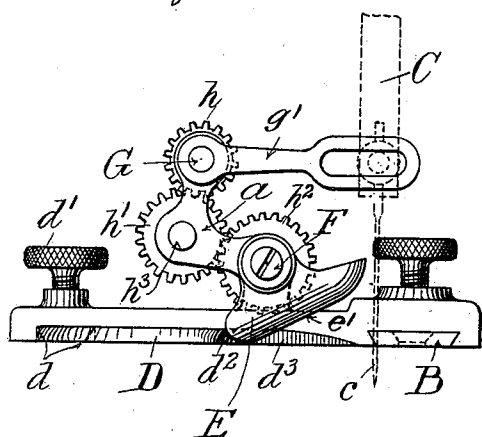


Fig. 2.

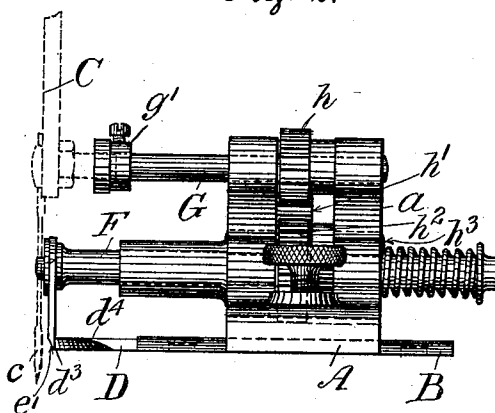
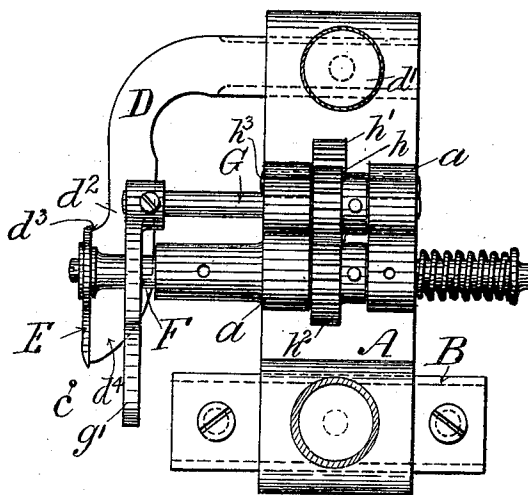


Fig. 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES BAUMANN, OF PHILADELPHIA, PENNSYLVANIA.

SEWING-MACHINE TRIMMER.

SPECIFICATION forming part of Letters Patent No. 618,977, dated February 7, 1899.

Application filed January 28, 1898. Serial No. 668,364. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BAUMANN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Sewing-Machine Trimmers, of which the following is a specification.

My invention relates to trimmers which act like a pair of scissors and may be readily attached to and detached from the cloth-plate of a sewing-machine.

The object of my invention is to provide a simple and efficient trimmer adapted to trim the edges of fabrics after they have been sewed together and be set with relation to the needle so as to leave seams of any width; and a further object is to provide means by which the trimmer may be easily set, attached, or removed from the machine.

The invention consists of a trimmer comprising a bed, a guide-plate for said bed, an adjustable shearing-edge plate, a rock-shaft carrying an oscillating shearing-blade, a spring adapted to press said blade against the shearing edge, an auxiliary rock-shaft having an arm by which it receives oscillatory motion from the needle-bar of the machine, and a set of gear-wheels to transmit the oscillatory movement of the auxiliary rock-shaft to the shearing-blade; and my invention further consists of the improvements hereinafter described, and pointed out in the claim.

My invention will be more fully understood when taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a plan view of my improved trimmer operated from the needle-bar of a sewing-machine. Fig. 2 is a front elevation, and Fig. 3 is a side elevation, of the said trimmer.

Referring now to the drawings for a further description of my invention, A is a bed provided with journal-bearings a.

B is a plate having wedge-shaped edges, Fig 3, secured to the cloth-plate (not shown) of a sewing-machine by means of countersunk screws.

C is the needle-bar, and c the needle, of a sewing-machine.

The bed A, having attached thereto the trimmer proper, is provided with a dovetailed groove fitting over the wedge-shaped edges of the plate B and may be set by hand to any distance longitudinally with respect to the needle c to allow for various widths of seams, after which it is clamped to the plate B.

In the rear of the base or bed A is adjustably attached, by means of a dovetailed groove d and the screw d', a right-angular shearing-edge plate D, having its forward end d² projecting, as at d³, on one side and tapered on the side d⁴ for a purpose to be described. In the bearings a of the bed is journaled a shaft F, on the left end of which is secured a shearing-blade E to operate in conjunction with the projection d³, having a shearing edge of the plate D to trim or cut the material fed by the feeding device of the sewing-machine between the same. The shearing-blade E, with cutting edge e', is held in intimate contact with the shearing edge of the projection d³ by a coiled spring located between an adjustable washer d⁴ on the shaft F and one side of a bearing a, so that the blade E and the projection d³, or rather their edges, when the blade is operated act as a pair of scissors. To operate this blade E, any means may be provided—for instance, a cam on the main shaft and means for imparting such cam motion to the rock-shaft F; but it is preferred to avoid any superfluous parts and connect the needle-bar to the shaft F to oscillate or operate the blade E. In the present instance an auxiliary shaft G is journaled above the shaft F, and an arm g' is at one end secured to the said shaft G, while the other and free extremity of the arm is slotted to engage the needle-fastening device of the needle-bar C. The motion of the shaft G attained from the needle-bar C is transmitted to the rock-shaft F by gear-wheels h, h', and h². The wheel h is secured to the shaft G and the wheel h² to the shaft F, while the idle-wheel h' is attached to a shaft h³, journaled also in the bearings a, so as to cause the shearing-blade E to act in the proper time with the needle c and feed (not shown) of a sewing-machine.

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

A sewing-machine having a needle-bar, a

cloth-plate and a plate with wedge-shaped
edges secured to the cloth-plate, in combina-
tion with a trimmer comprising a bed, a dove-
tailed groove in the under side of the bed and
5 fitted over the said plate, a milled screw
adapted to clamp the bed to the said plate, a
shearing-edge plate adjustably secured to the
said bed, a shearing-blade cooperating with
the shearing-edge plate, a shaft on which said
10 blade is fastened, journal-bearings on said bed
for said shaft, an auxiliary shaft journaled in
the same bearings, an arm secured with one
end to the said auxiliary shaft and having its

free end slotted and adapted for connection
with the needle-bar, a gear-wheel on each of 15
said shafts and an idle-wheel between the said
gear-wheels, substantially as and for the pur-
poses set forth.

In witness whereof I have hereunto set my
signature in the presence of two subscribing 20
witnesses.

CHARLES BAUMANN.

Witnesses:

ADOLPH REDEKER,
HERMANN BORMANN.