

(No Model.)

C. H. STUART.

RIPPING ATTACHMENT FOR SEWING MACHINES.

No. 587,615.

Patented Aug. 3, 1897.

Fig 1.

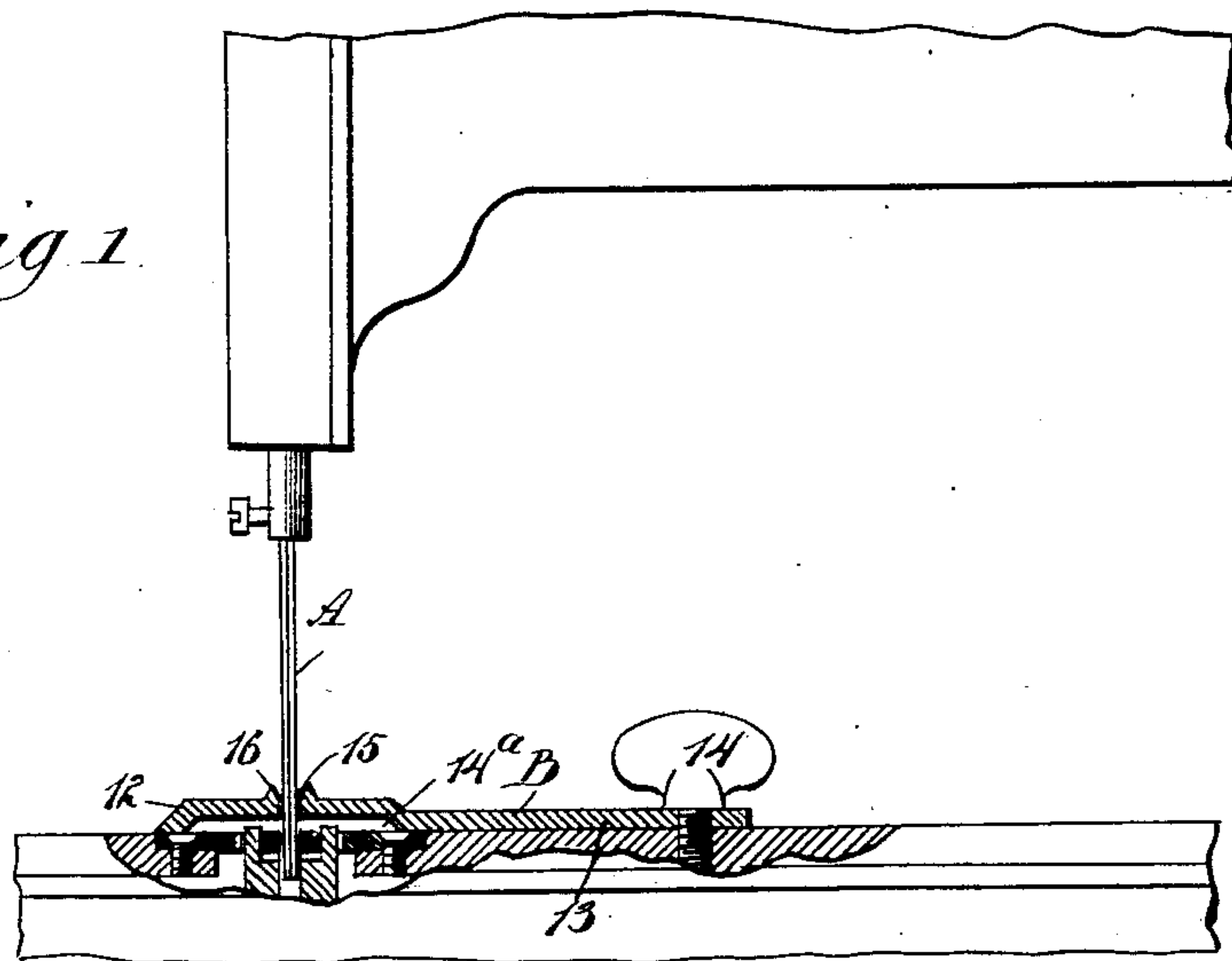


Fig 2.

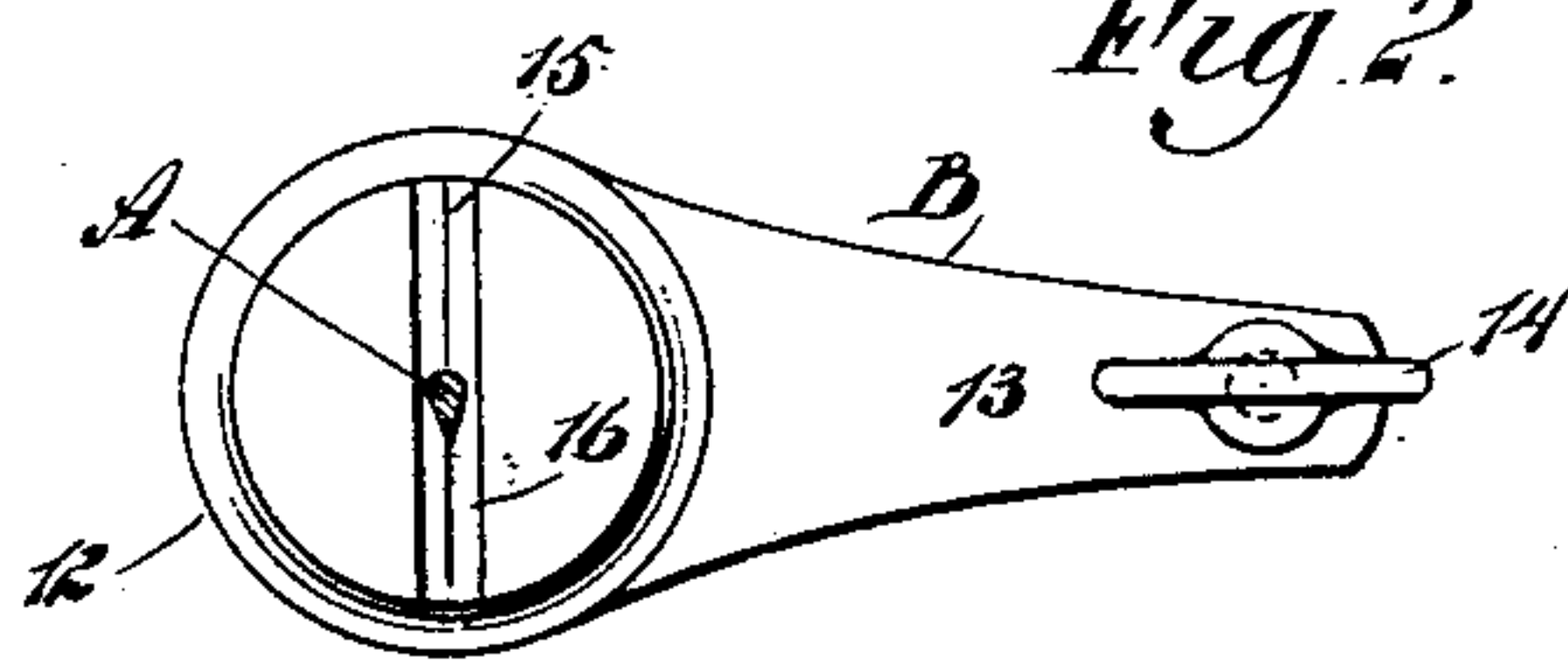


Fig 3.

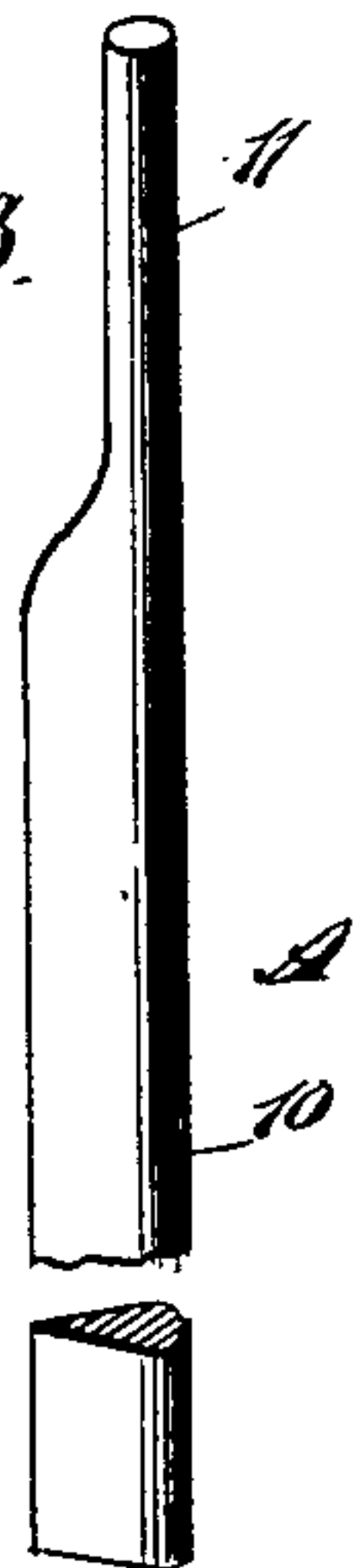
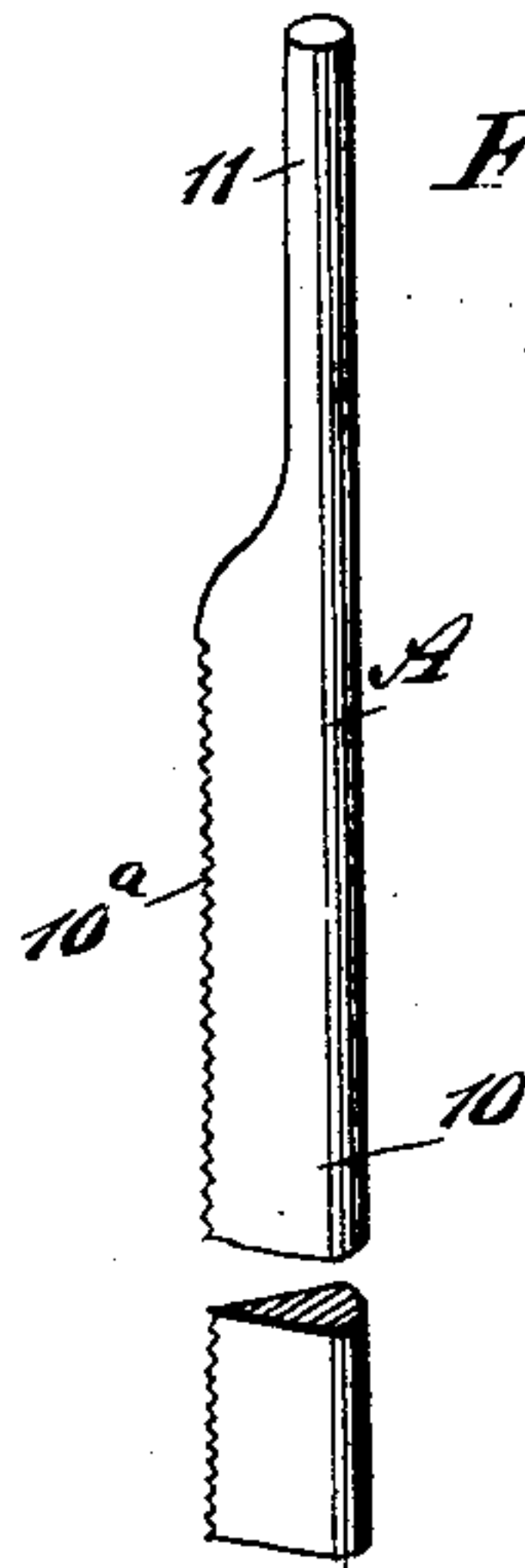


Fig 4.



WITNESSES:

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RIPPING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 587,615, dated August 3, 1897.

Application filed May 13, 1897. Serial No. 636,360. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. STUART, of Newark, in the county of Wayne and State of New York, have invented a new and Improved Ripping Attachment for Sewing-Machines, of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple and economic ripping attachment which may be quickly and conveniently applied to any sewing-machine and the knife of the attachment secured to the needle-bar and taking the place of the needle.

Another object of the invention is to provide a needle-plate arranged to cover the feed device of the machine without interfering with its movements, such plate serving both as a guide for the ripping-knife and a guide for the seam being operated upon.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of that part of the arm of the sewing-machine carrying the needle-bar and a partial side elevation and partial sectional view of the table, showing the ripping-knife substituted for the needle, said knife being in edge view. Fig. 2 is a plan view of the plate which is used in connection with the knife. Fig. 3 is a perspective view of the improved knife, and Fig. 4 is a similar view of a knife slightly modified in construction.

The knife A consists of a blade 10 and a shank 11. The blade 10 is preferably razor-shaped, having both sides slanting or inclined, whereby a broad back is obtained and an exceedingly sharp cutting edge may be produced. In Fig. 3 the cutting edge is shown perfectly plain or straight, whereas in Fig. 4 the cutting edge is shown as provided with serrations 10^a.

The shank 11 is shown as round, but it may be made angular in cross-section or of any

desired cross-sectional shape which will admit of the shank being introduced into the needle-receiving sockets of sewing-machines.

In connection with the knife a plate B is employed, and this plate consists, essentially, of a head 12 and a shank 13. The shank 13 receives a thumb-screw 14, and the thumb-screw is to be entered into any of the openings on the machine-table adjacent to the feed mechanism, which openings are usually made for securing attachments to the machine.

The head is shown as circular, but it may be given other shape, and the head is also preferably struck up from below or hollowed out in such manner as to form a chamber 14^a. When the plate is secured on the table or sewing-machine, the head of the plate will effectually cover the feed mechanism of the machine and yet permit said mechanism to operate in its customary way. An opening is made at or about the central portion of the head of the plate of such dimensions and shape as to admit of the knife playing freely through the plate. The knife is made of such length that it will not, even at the limit of its upstroke, pass beyond the feed mechanism. The head of the plate is furthermore provided upon its upper face with ridges 16, which will serve to enable the operator to readily follow the seam to be ripped and serve as a guide for the seam.

It is evident that a device of the character above set forth is exceedingly simple and durable and that it may be attached readily to a sewing-machine of any type or style.

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

1. An article of manufacture, consisting of a plate having a raised or offset portion at one end, a hole therethrough adapted to act as a knife-guard, parallel raised ridges on the upper surface thereof on each side of the hole, and means for securing said plate to a sewing-machine bed with the hole therein beneath the needle-bar, substantially as described.

2. A ripping or cutting attachment for sewing-machines comprising a plate adapted to be secured to the machine-bed beneath the

needle-bar and to cover the feed mechanism,
said plate having a hole shaped to correspond
with the section of the cutter and acting as a
guide therefor and a cutter consisting of a
5 bar having a knife-section adapted to enter
the hole in the plate and a shank-section
adapted to enter the needle-socket in the

needle-bar, said plate having parallel ridges
one upon each side of the cutter-guide, sub-
stantially as described.

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Witnesses:

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