

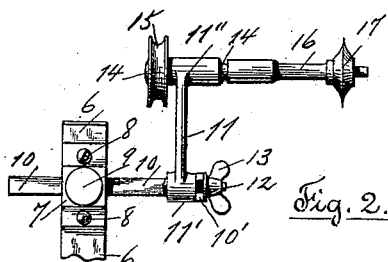
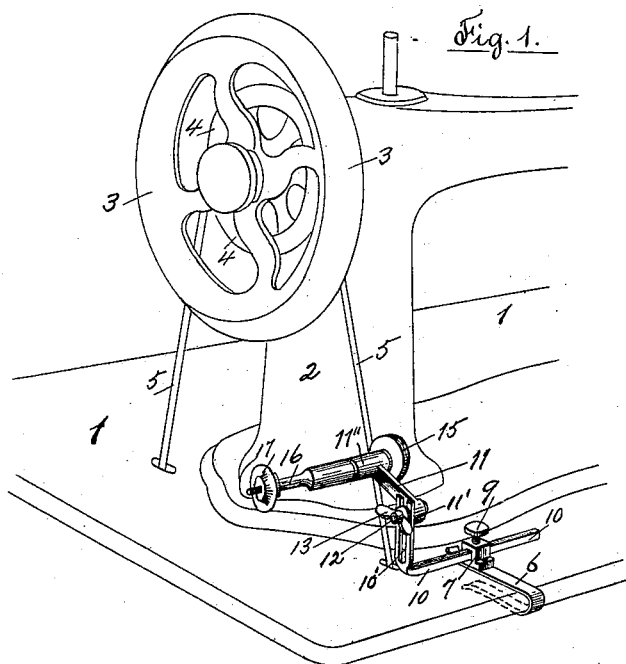
(No Model.)

N. T. QUEVEDO.

RIPPING ATTACHMENT FOR SEWING MACHINES.

No. 421,054.

Patented Feb. 11, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

NARCISO T. QUEVEDO, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF
ONE-HALF TO ISABELLE BROWN, OF SAME PLACE.

RIPPING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 421,054, dated February 11, 1890.

Application filed October 17, 1889. Serial No. 327,336. (No model.)

To all whom it may concern:

Be it known that I, NARCISO T. QUEVEDO, a citizen of Guatemala, Central America, residing at Worcester, in the county of Worcester, State of Massachusetts, have invented certain new and useful Improvements in Ripping Attachments; and I do hereby declare that the following is a full, clear, and exact description thereof, which, in connection with the drawings making a part of this specification, will enable others skilled in the art to which my invention belongs to make and use the same.

My invention relates to a ripper or ripping attachment, and more particularly to the ripping attachment set forth and described in my application for a patent, Serial No. 322,960, filed September 4, 1889, to which reference is hereby made; and my invention consists in an improvement on the ripper described in said application, and in combining with the ripper a holder which is adapted to be applied to and used in connection with any sewing or other machine or independently thereof by itself. In my said application I have specially described and shown my ripper combined with the holding and driving mechanism of a bobbin-winder frame of a sewing-machine. It is often desirable to use the ripper in a machine which does not have a bobbin-winder frame, and it is also desirable to combine the ripper with a sewing-machine, so that it may be operated by the belt or wheel without interfering with the operation of sewing, and so that both the sewing and the ripping operation may be going on at the same time on one machine. In my present application I have shown in the drawings and shall describe my adjustable holder for the ripper, adapted to be applied to any sewing-machine and operated by the belt or balance-wheel, or adapted to be used independently of a sewing-machine and operated by means of hand or foot power or automatically. It will be understood that the purpose of the ripper attachment shown and described herein is the same as fully set forth in my said application for a patent already referred to, and therefore it is not necessary to enlarge on it here.

Referring to the drawings, Figure 1 is a

perspective view of the rear side of a portion of a sewing-machine with my ripping attachment applied thereto. Fig. 2 is a plan view of the ripper attachment shown in Fig. 1, detached and shown in a reversed position.

In the accompanying drawings, 1 is the top of a table or stand, and 2 is a portion of a sewing machine of any ordinary construction, supported on the top 1 and provided with the hand or balance wheel 3, and the grooved pulley 4, around which the driving-belt 5 passes to operate the machine. The driving-belt 5 passes around another pulley below the machine (not shown) and is driven by any ordinary-treadle motion. (Not shown.) A spring-clamp 6 extends over one edge of the table-top 1, in this instance at the rear of the machine, and is held in place on the table-top by the force of the spring or by means of thumb-screws or otherwise, so that the position of the clamp 6 may be changed and adjusted at pleasure, or the clamp may be removed, if desired. Upon the upper surface of the clamp 6 is in this instance secured a box 7 by means of screws 8 or otherwise. Said box 7 is provided with a thumb-screw 9. A sliding bar 10, with one end bent upwardly at right angles to the main portion of the bar and made forked or slotted (see Fig. 1) at 10', is held in place in the box 7, and may be adjusted therein by means of the thumb-screw 9. Supported in the end 10' of the bar 10 is an arm 11, held therein and adjusted by means of a screw or bolt 12 passing through the hub 11' at the inner end of the arm 11 and a thumb-nut 13. The outer end of the arm 11 is provided with a hub 11'', in which is supported to turn loosely therein a spindle 14, having a small grooved pulley 15 fast on one end and the other end made slightly tapering to extend into a corresponding hole in the end of the ripper-spindle 16, which is forced onto the tapering end of the spindle 14 and held in place by friction or otherwise.

Upon the outer end of the spindle 16, made integral therewith or secured thereon, is a circular cutter 17, similar to the circular cutter in my prior application for a patent previously referred to. The circular cutter may be made separate from the spindle 16 and adapted to be secured thereon and removed

therefrom for the purpose of sharpening. The spindle 16, carrying the cutter 17, may be made integral with the spindle 14, if desired.

5 The operation of the ripping attachment and the manner of applying the same to a sewing or other machine will be readily understood by those skilled in the art, and are as follows: The clamp 6 is fitted to the edge of
10 the table-top at the front or rear of the machine and secured firmly thereon. The arm 11 is fitted to the fork 10' of the bar 10 and secured in place by the thumb-nut 13. The sliding bar 10 is fitted in the box 7 and ad-
15 justed longitudinally therein in a horizontal plane into proper position, so that the pulley 15 will extend in the path of the driving-belt 5. The thumb-screw 8 is then tightened. By means of the screw 12 and thumb-nut 13 the
20 arm 11, carrying the ripper-spindle 14, with the pulley 15 fast thereon, mounted loosely in a vertical plane and secured in place, so that the belt 5 may come in contact with the
25 pulley 15 at the proper point to operate said pulley. The revolution of the pulley 15 by the belt 5 causes the ripper-spindle 16 and the ripper 17, fast thereon, to revolve, and the
30 ripper 17 to cut or rip the material held against it, as fully set forth in my prior application for a patent, previously referred to.

I have shown in the drawings the ripper driven by a belt; but it will be readily seen that by making the forked end 10' of the sliding bar sufficiently long the pulley 15 may be
35 brought into contact with the rim of the wheel 3 and operated directly from said wheel by friction.

The value of my improved ripping attach-

ment will be readily appreciated by those 40 skilled in the art. I provide a ripper and an adjustable holder for the same, which may be applied to any form of sewing-machine and used thereon without interfering in any way with the operation of sewing, and which may 45 be used, at the same time that the sewing operation is going on, by another person. I also provide a ripper and an adjustable ripper-holder, which may be used entirely independently of any machine and be operated 50 by hand or foot power, as desired.

Instead of employing a clamp 6 for holding the ripper-holder in place on the table-top, the box 7 may be secured directly to the table-top by screws or otherwise and the clamp 55 6 dispensed with.

The details of construction of the several parts of my ripping attachment may be varied somewhat from what is shown and described, if desired, without departing from 60 the principle of my invention.

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

As an improved article of manufacture, a 65 ripping attachment consisting of a clamp, a sliding bar adjustably supported on said clamp and having one end forked, an arm adjustably supported in said forked end, a spindle loosely mounted in the outer end of said 70 arm, a driving-pulley fast on said spindle, and a circular cutter adapted to be attached to said spindle, substantially as set forth.

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