

E. J. MILLER.
ATTACHMENT FOR SEWING MACHINES.
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912,015.

Patented Feb. 9, 1909.

Fig. 1.

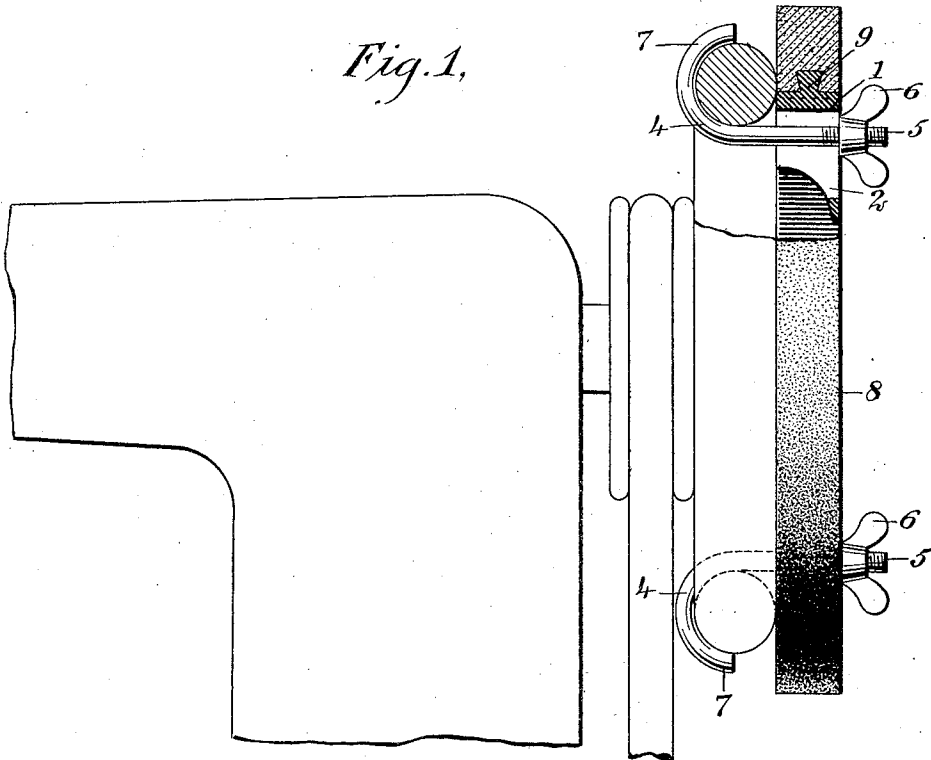
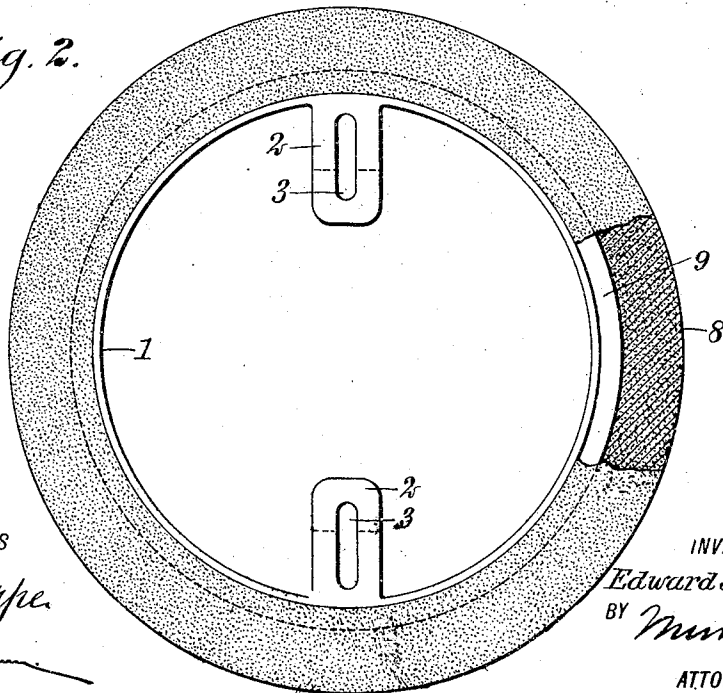


Fig. 2.



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EDWARD J. MILLER, OF SHAMOKIN, PENNSYLVANIA.

ATTACHMENT FOR SEWING-MACHINES.

No. 912,015.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed December 2, 1908. Serial No. 465,610.

To all whom it may concern:

Be it known that I, EDWARD J. MILLER, a citizen of the United States, and a resident of Shamokin, in the county of Northumberland and State of Pennsylvania, have invented a new and Improved Attachment for Sewing-Machines, of which the following is a full, clear, and exact description.

This invention relates to attachments for sewing machines, and more particularly to such as are adapted to be removably secured to the balance wheels of the machines, and each of which consists of a frame having a grinding rim formed of emery, carborundum or the like, arranged thereon, and adjustable means for removably securing the frame to any ordinary balance wheel.

The object of the invention is to provide a device of the class described, simple and serviceable in construction and inexpensive to manufacture, which can easily be attached to the balance wheel of a sewing machine for the sharpening of knives, scissors or the like.

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 both views.

Figure 1 is a side elevation having parts in section, and showing an embodiment of my invention applied to the balance wheel of a sewing machine; and Fig. 2 is an enlarged plan view of the attachment, having a part broken away.

In the specific form shown in the drawings, I provide an annular frame 1 formed of any suitable metal, and having an annular peripheral rib 9, as shown most clearly in Fig. 1 of the drawings. The rib is undercut and is similar in cross section to a dovetail. Extending radially and inwardly, and being integral with the frame 1 are lugs or ears 2. These lugs are provided with slots 3, for a purpose to be hereinafter described. The under sides of the lugs are cutaway, as shown most clearly in Fig. 1.

Adapted to be received by the slots 3 of the lugs, are hook bolts 4, the latter having

their ends 5—which project through the slots—threaded to receive correspondingly threaded butterfly-nuts 6. The hook ends 7, of the bolts are adapted to engage the balance wheel rim, so that the frame 1 can be securely clamped thereon. The provision of slots in the lugs in place of circular openings, and the lugs being undercut, allows the bolts 4 a considerable range of adjustment, to adapt the attachment to various types and sizes of wheels.

Formed to be carried by the frame, and to be held in place by the rib on the periphery of the latter, is a grinding rim 8 of any suitable material, such as emery, carborundum, or the like. Preferably the grinding rim is molded in place on the frame.

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

1. In a device of the class described, an annular frame provided with a peripheral rib, said frame having inwardly disposed lugs provided with slots, hook bolts, each having one end projecting through one of said slots, and having the other end adapted to engage a balance wheel removably to secure said frame thereon, and a grinding rim molded upon said frame.

2. An emery wheel adapted to be removably secured to the balance wheel of a sewing machine, comprising an annular frame provided with an undercut rib, said frame having inwardly disposed undercut lugs, said lugs having slots extending longitudinally thereof, hook bolts adapted to project through said slots and serving operatively to engage the balance wheel of said sewing machine, butterfly nuts on said bolts for securing said frame to said wheel, and a grinding rim carried by said frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD J. MILLER.

Witnesses:

W. A. COULSTON,
WILLIAM W. RYAN.