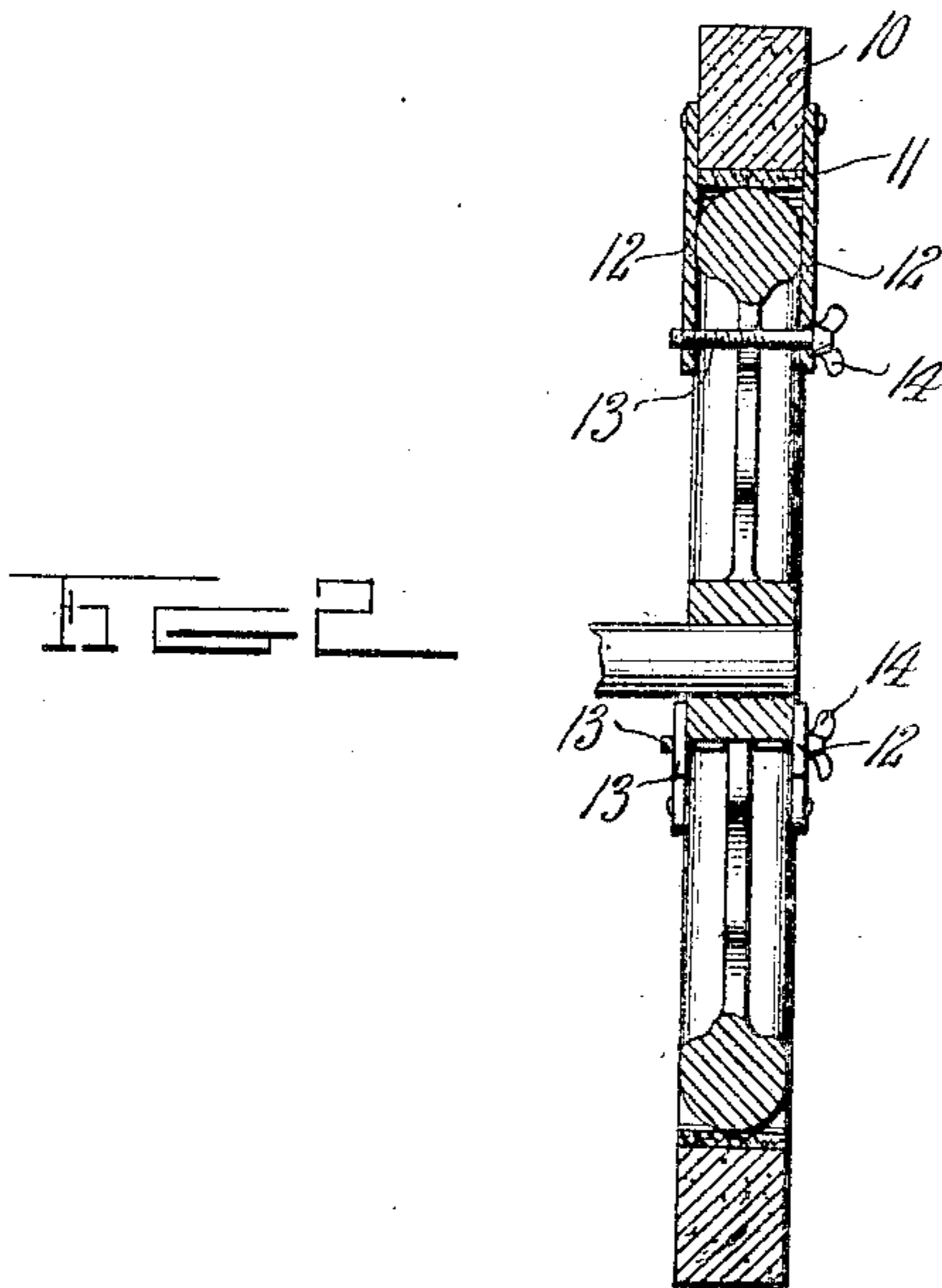
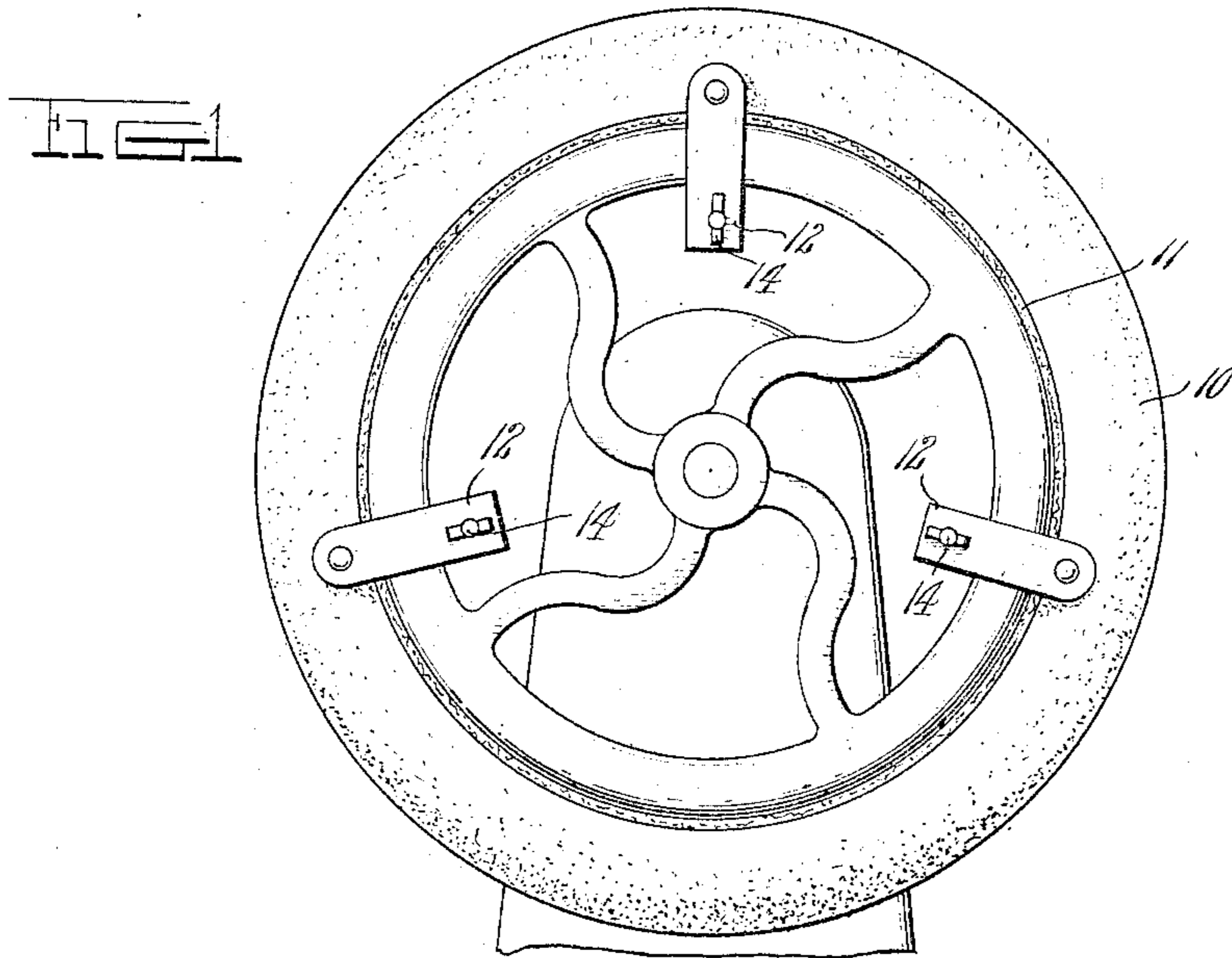


C. D. ARMSTRONG.
ATTACHMENT FOR SEWING MACHINES.
APPLICATION FILED NOV. 16, 1908.

931,369.

Patented Aug. 17, 1909.



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UNITED STATES PATENT OFFICE.

CHARLES D. ARMSTRONG, OF PROVO, UTAH.

ATTACHMENT FOR SEWING-MACHINES.

No. 931,369.

Specification of Letter's Patent.

Patented Aug. 17, 1909.

Application filed November 16, 1908. Serial No. 462,817.

To all whom it may concern:

Be it known that I, CHARLES D. ARMSTRONG, a citizen of the United States, residing at Provo, in the county of Utah, State of Utah, have invented certain new and useful Improvements in Attachments for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to attachments for sewing machines and has special reference to an attachment to be placed on the fly wheel of a sewing machine in the nature of a grinding or abrasive wheel.

One object of the invention is to provide an improved form of abrasive wheel for such use.

Another object of the invention is to provide an improved means of securing said abrasive wheel to the fly wheel of a sewing machine.

With the above and other objects in view, the invention consists, in general, of an abrasive wheel provided with improved attaching means and of novel construction.

The invention further consists in certain novel details of construction, combinations of parts hereinafter described, illustrated in the accompanying drawings, and specifically set forth in the claims.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—Figure 1 is a side elevation of an abrasive wheel constructed in accordance with this invention and showing the same applied to a sewing machine. Fig. 2 is a sectional view on the vertical median plane of Fig. 1.

In carrying out my invention, I provide a connatural abrasive wheel 10 with a lining 11 of felt so that the abrasive wheel may be readily slipped over the fly wheel of a sewing machine. In order to accomplish this purpose, I make the abrasive wheel of annular form as clearly shown. Pivotally mounted at three equidistant points around the inner periphery of the wheel 10 are pairs of arms 12, one arm of each pair being provided with a smooth aperture, while the other arm is provided with a threaded aperture. A screw 13 having a thumb end 14 passes through the smooth aperture and en-

gages the threaded aperture in the opposed arm.

In applying this invention to a machine, the thumb screws are removed and the arms swung outward. The device is then slipped over the fly wheel of the machine. The arms are then turned down so as to grasp the wheel on both sides and are brought together by placing the screws in the proper apertures and screwing up upon the same. It is to be noted that by reason of the abrasive portion of the wheel being made of connatural material the life thereof is greatly prolonged over the ordinary type of wheel which has an abrasive face and wood or leather backing. It is further to be noted that the peculiar attaching means renders it unnecessary to make special provision on the fly wheel of the machine for the attachment inasmuch as the arms are adapted to grasp said wheel at such points that centering of the abrasive wheel is readily accomplished.

I have thus provided an efficient and simple device of the kind described and for the purpose specified.

Having thus described the invention, what is claimed as new, is:—

1. An attachment for sewing machines comprising an annular connatural abrasive wheel, a felt lining therefor, and a plurality of pairs of arms pivotally mounted on opposite sides of said wheel and adapted to grip the fly wheel of a sewing machine.

2. An attachment for sewing machines comprising an annular connatural abrasive wheel, a felt lining therefor, a plurality of pairs of arms secured on opposite sides of said wheel and adapted to grip the fly wheel of a sewing machine, and means to force said arms together.

3. An attachment for sewing machines comprising an annular connatural abrasive wheel, a felt lining therefor, a plurality of pairs of arms pivotally mounted on opposite sides of said wheel and adapted to grip the fly wheel of a machine, and means to force said arms together.

4. An attachment for sewing machines comprising an annular connatural abrasive wheel, a felt lining therefor, a plurality of pairs of arms secured on opposite sides of said wheel and adapted to grip the fly wheel of a machine, one arm of each pair being provided with a threaded aperture and the

other arm of the pair having a smooth aperture, and a screw held in the apertures of each pair.

5 5. An attachment for sewing machines comprising an annular connatural abrasive wheel, a felt lining therefor, a plurality of pairs of arms pivotally mounted on opposite sides of said wheel and adapted to grip the fly wheel of a machine, one arm of each
10 pair being provided with a threaded aper-

ture and the other arm of the pair having a smooth aperture, and a screw held in the apertures of each pair.

In testimony whereof, I affix my signature, in presence of two witnesses.

CHARLES D. ARMSTRONG.

Witnesses:

R. LEO BIRD,

JOHN H. McEWAN.