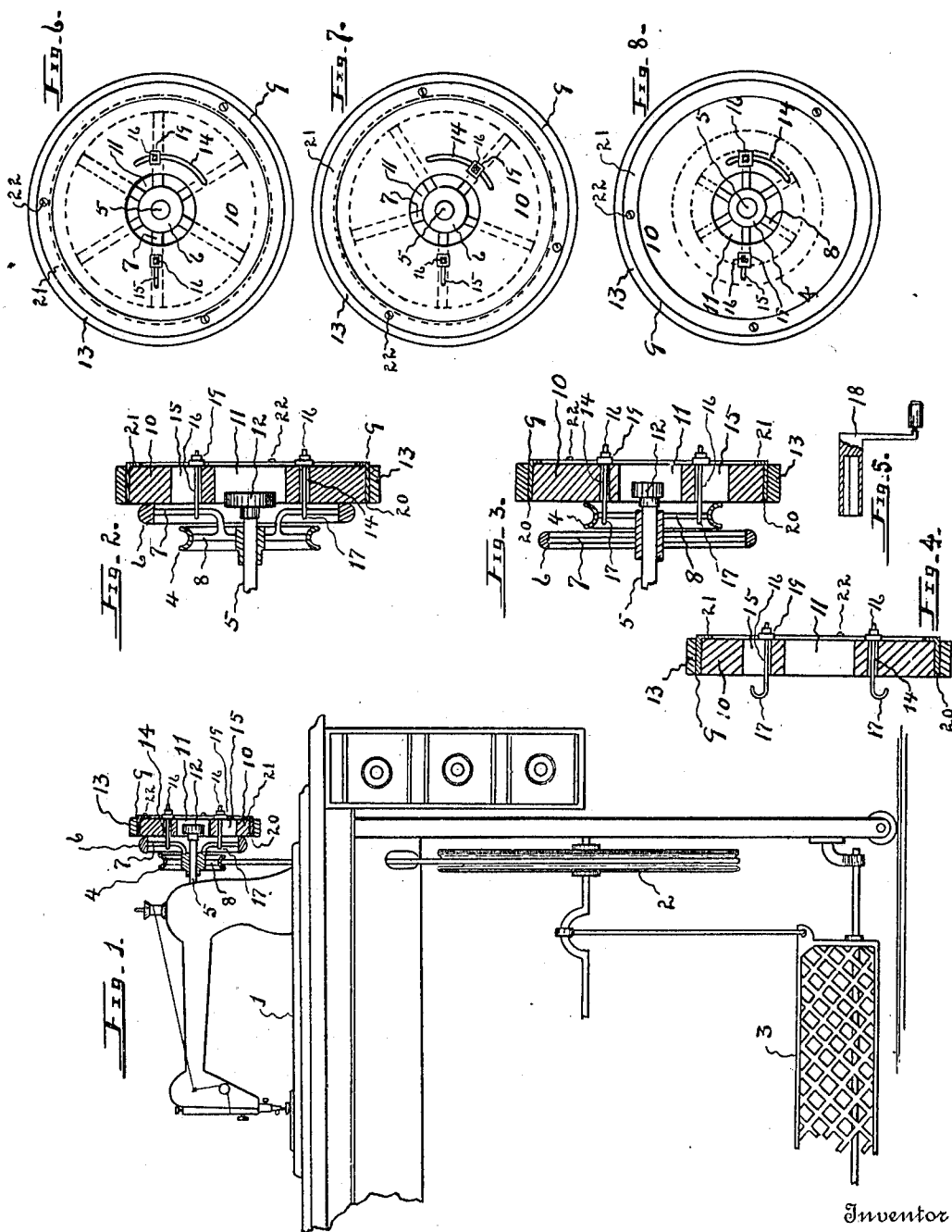


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SEWING MACHINE ATTACHMENT.
APPLICATION FILED JAN. 3, 1910.

956,965.

Patented May 3, 1910.



Witnesses

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HOWARD HOLFORTY, OF OMAHA, NEBRASKA.

SEWING-MACHINE ATTACHMENT.

956,965.

Specification of Letters Patent.

Patented May 3, 1910.

Application filed January 3, 1910. Serial No. 536,074.

To all whom it may concern:

Be it known that I, HOWARD HOLFORTY, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Sewing-Machine Attachments, of which the following is a specification.

This invention relates to improvements in sewing machine attachments, and has for its object to provide a disk which may be conveniently mounted upon the pulley or hand wheel of the machine, and useful for sharpening needles, shears, scissors or the like, and for polishing the same.

The invention has reference to the form and structure of the disk, and to means for operatively mounting the same, and consists of the novel construction, combination and arrangement of parts, as described herein and claimed, and as illustrated in the drawing, wherein,—

Figure 1 is a side view of a part of a sewing machine with my device mounted upon the hand wheel, the disk, pulley and hand wheel being in section. Fig. 2 is an enlarged detail relating to Fig. 1, being a vertical, sectional view of the hand wheel, pulley and the polishing or grinding disk. Fig. 3 is a sectional view of parts, the disk being mounted upon the pulley, said pulley being disposed between the disk and hand wheel. Fig. 4 is a vertical, sectional view of the device. Fig. 5 is a side view, partly in section, of a crank used in connection with the screw hooks. Fig. 6 is a front or end view of the disk, the hand wheel, upon which it is mounted, being indicated by broken lines and showing use of the invention in connection with a hand wheel having an "even" number of spokes. Fig. 7 is a somewhat similar view to that shown in Fig. 6, and illustrating adaptation of the invention for its mounting upon a wheel having an "odd" or uneven number of spokes. Fig. 8 is an end view of the disk, showing adaptation for mounting the disk upon the pulley, and to be considered in connection with Fig. 3.

Referring now to the drawing for a more particular description, numeral 1 indicates a sewing machine of an ordinary type, having a band wheel 2 actuated by treadle 3, to cause a rotation of pulley 4 mounted upon shaft 5 of the machine.

At 6, mounted upon the shaft, is indicated a hand wheel having spokes 7, and in almost

all instances with respect to machines of this kind, the hand wheel is disposed outwardly of the pulley, as clearly illustrated in Figs. 1 and 2; sometimes, however, the hand wheel is mounted upon the shaft, inwardly of the pulley, as shown in Fig. 3. The hand wheel and pulley are generally connected in a well known manner as shown in Figs. 1 and 3, by providing an integral construction for the spokes 7 and 8, respectively, of the hand wheel and pulley.

I provide a disk 9, having a core 10. The core may be constructed of any suitable material, but preferably, wood is used. It has a central aperture 11 so that it may circumscribe and overhang the coupling-pin 12 which is usually employed upon and which extends outwardly of the end of shaft 5; and outwardly from the periphery of the core, upon the outer surface of the connecting sleeve 20, is mounted a peripheral band or sleeve 13, constructed of any suitable grinding or polishing material, as may be desired.

The disk is formed, at points opposite each other and between its central aperture and periphery, with the circular slot 14 and the radial slot, 15, these slots extending transversely through the body of the core; and by use of screw hooks 16 seated in these slots, the disk may be rigidly secured to either the hand wheel or pulley, hooks 17 engaging the spokes of either of these wheels.

When mounting the disk, care should be exercised, of course, so that the shaft will be disposed at the center of the disk, and after the hooks have been passed over and engagement thereof made with the spokes, the crank or key 18 shown in Fig. 5 may be employed to advantage for the rotation of screw-caps 19, upon the stems or outer threaded ends of the screw hooks.

In Fig. 7, the disk is shown, mounted upon a hand wheel having five spokes, and it will be seen that, by employing the circular slot 14, as shown and described, the disk may be mounted upon wheels where the spokes are disposed opposite to each other at substantially 180 degrees apart, or where they are not disposed in alinement; and the radial slot employed is convenient, since the screw hook seated therein, may be moved more readily while adjusting the hook upon the spoke.

Intermediate core 10 and peripheral band

13 is indicated the connecting sleeve 20 which may be connected with band 13 by use of cement, or other suitable means. Sleeve 20 is formed with a transverse, annular flange 21, and by use of holding-members or screws 22, the flange may be secured upon one of the sides of the disk, and by this construction, band 13 may be readily removed, or secured in position.

10 Bands 13 may be of any suitable material adapted for either grinding purposes or polishing, and in practice, a band adapted for polishing purposes may be removed from the disk, and a band which is adapted for
15 grinding may be secured thereon, if desired.

Having fully explained the several parts and their operation, a further description is not needed.

What I claim and desire to secure by Letters Patent is,—

20 In a device of the character described, the combination with a shaft mounted pulley, said shaft and pulley having a projecting part disposed outwardly of the plane of the
25 pulley and in alinement with the axis of

the shaft, of a disk having a greater diameter than the pulley and consisting of a circular core portion formed with a central opening within which said projecting part lies, a hook member passing through a radial slot in said core member, a second hook member passing through an arcuate slot formed in the core member substantially diametrically opposite the radial slot, a rim member comprising a ring, L-shaped in cross section, one portion of said ring lying against the vertical outer face of the core member, and the other portion of said ring encircling and engaging the periphery of the core member, a grinding and polishing ring secured to
30 and removable with said L-shaped ring, and fastening devices passing through the outer face of said L-shaped ring and entering said core member.

In testimony whereof I have affixed my
signature in presence of two witnesses.

HOWARD HOLFORTHY.

Witnesses:

HIRAM A. STURGES,
W. P. HAWKINS.