No. 798,299. PATENTED AUG. 29, 1905.

J. O. ROLLINS.

TOOL ATTACHMENT FOR SEWING MACHINES.

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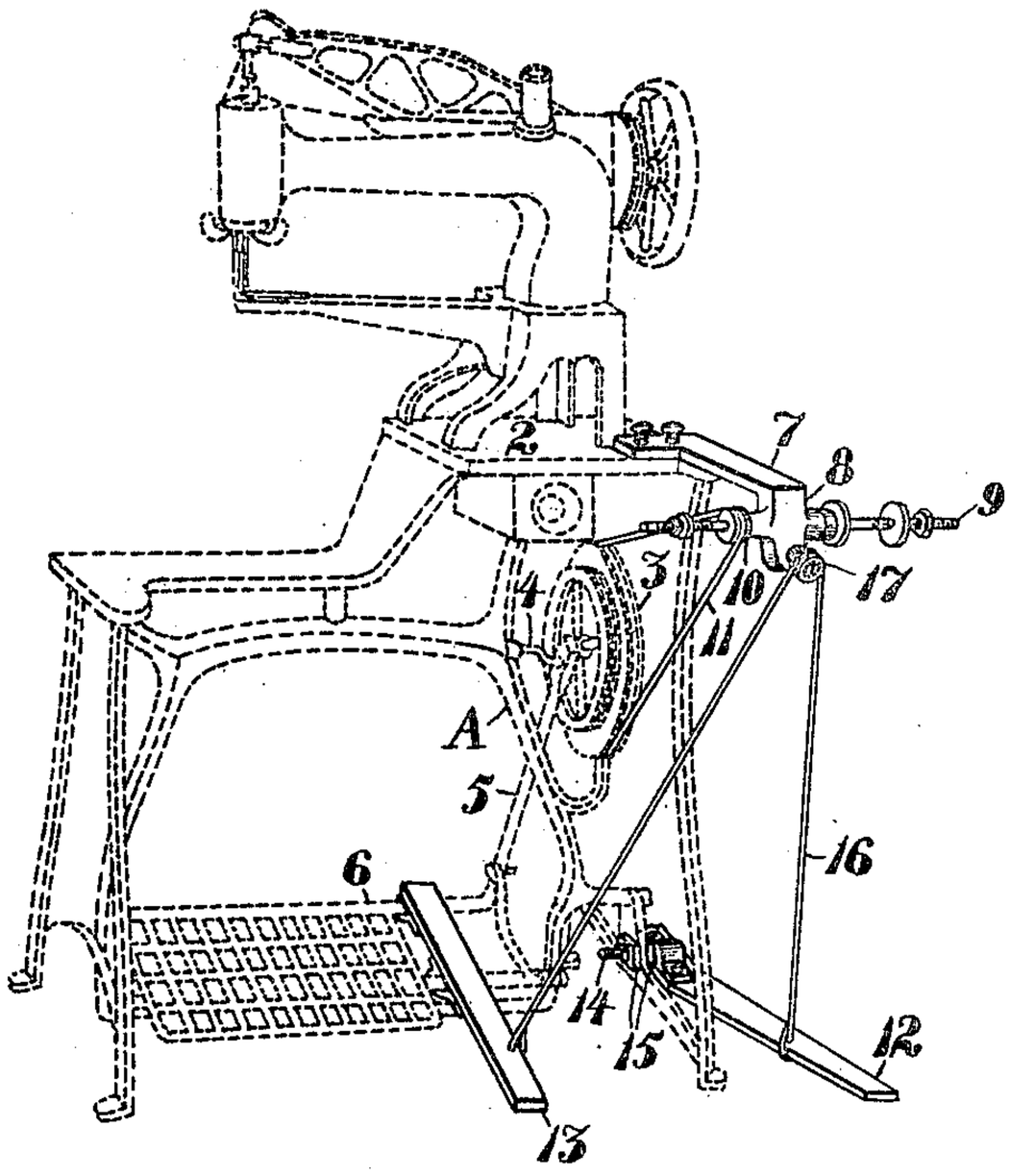

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UNITED STATES PATENT OFFICE.

JOHN O. ROLLINS, OF TUOLUMNE, CALIFORNIA.

TOOL ATTACHMENT FOR SEWING-MACHINES.

No. 798,299. Specification of Letters Patent. Patented Aug. 29, 1905.

Application filed February 21, 1905. Serial No. 246,807.

To all whom it may concern:

Be it known that I, JOHN O. ROLLINS, a citizen of the United States, residing at Tuolumne, in the county of Tuolumne and State of California, have invented new and useful Improvements in Tool Attachments for Sewing-Machines, of which the following is a specification.

My invention relates to attachments for sewing-machines, and particularly to a form of removable tool-hanger and means for driving the same from the machine-treadle.

It is often desired to employ various rotary tools—such as brushes, polishers, burnishers, abrading devices, and the like—in conjunction with a sewing-machine; and it is the object of my invention to provide a detachable carrier for rotary tools which may be applied to machines already in use and which will drop below the table to permit of its being run from the main drive-wheel without interfering with the table or requiring changes therein and to provide a novel and efficacious means for operating the tools from the treadle of the machine and without necessarily running the sewing-arm.

It consists of the parts and the construction and combination of parts, as hereinafter more fully described and claimed, having reference to the accompanying drawing, in which the figure is a representation of a sewing-machine with my invention applied, the parts that are deemed novel being shown in full lines.

A represents the frame of a well-known type of sewing-machine having the table 2, the fast pulley 3, whence power is transmitted to the sewing-arm, the crank 4, the pitman 5, and the treadle 6.

7 is a frame or hanger adapted to be clamped or otherwise removably secured to the table and having a drop portion 8, which extends beyond and below the edge of the table and carries an arbor-shaft 9. The latter extends at right angles to the frame 7 and is provided with a fast grooved pulley 10 in the same plane with pulley 3. Each end of shaft 9 is adapted to receive various grinding-wheels, polishers, buffers, brushes, &c.

The shaft is driven by a belt 11, normally inactive when the machine is regularly occupied, but which is adapted to be slipped onto pulley 3 when the other belt driving the sewing-arm is thrown off. By connecting with this drive-pulley rather than with the pulley above the table, which operates the sewing-arm, it is possible to use the tool attachments without running the needle constantly.

As more power is required under some circumstances to operate the tool-shaft 9 than for ordinary sewing purposes and as the shaft should be driven at very high speed, I provide the following means for increasing the normal treadle-power of the machine: I employ a supplementary detachable treadle-arm 12, adapted to be pivotally hung on the outside of the vertical frame A, and a second detachable arm 13, which may be secured to the treadle 6. Preferably the treadle-arm 12 is arranged so as to diverge from the plane of the machine-frame and carry its free end outward to afford sufficient room for the operator's foot without rubbing against the frame. By this arrangement the operator may use both feet and convert a single heel-and-toe tread into a double direct-tread machine. The pivot-bolt 14 of the treadle is passed through an opening in the frame-casting A and clamped fast to the said frame, a suitable bearing on each side of the latter being furnished by the plates 15. The two arms are connected by a cord 16, passing over a pulley 17, journaled on the hanger 7 at right angles to the axis of the tool-shaft 9, whereby the power of treadle-arm 12 is communicated through arm 13 to treadle 6 and thence to the drive-pulley 3. By journaling the direction-pulley 17 on the hanger the entire device is made very simple and compact.

This treadle attachment, as well as the tool-hanger, is quickly put on or taken off of a machine, interferes in no way with the ordinary functions of the machine, and forms a handy power and time saving adjunct thereto.

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

1. The combination with a sewing-machine and the operating-treadle thereof, of a detachable tool-shaft carrier, a direction-pulley journaled on said carrier, a tool-shaft on the carrier, said pulley being journaled at right angles to the tool-shaft and said shaft having its opposite ends adapted to receive grinding or polishing tools, a fast pulley on said shaft, a drive-pulley journaled in the frame of the machine, connections between said fast pulley and said drive-pulley, means for operating the latter from said treadle, a detachable treadle having means of attachment to the outside of the ma-

chine-frame, and flexible connections between said detachable treadle direction-pulley and operating-treadle.

2. The combination with the frame-casting and operating-treadle of a sewing-machine, of a treadle-arm, means including a pivot-bolt passed through the frame-casting and plates upon each side of the frame furnishing bearings for said bolt whereby the arm is detachably secured to the outside of the frame-casting, a direction-pulley and flexible connections, supported by said pulley, between said arm and operating-treadle.

3. The combination with the frame-casting and operating-treadle of a sewing-machine, of a detachable arm arranged to be secured thereto, a treadle-arm, means including a bolt passing through the frame-casting and plates on the bolt upon each side of the frame for detachably securing said arm to the side of the frame-casting, a direction-pulley and a flexible connection passing over said pulley between said arms.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN O. ROLLINS.

Witnesses:
J. P. GALLAGHER,
P. R. GARDNER.