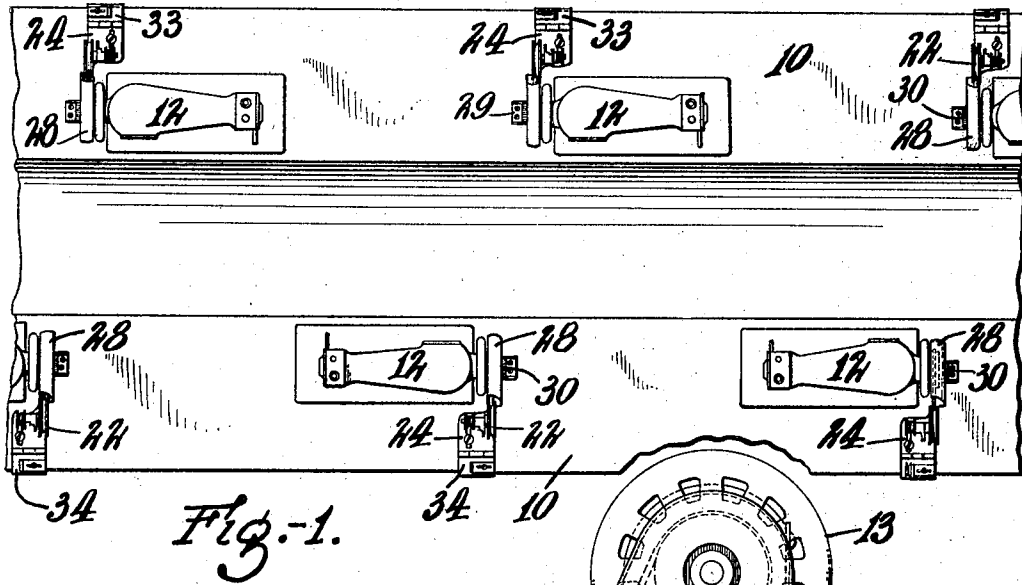
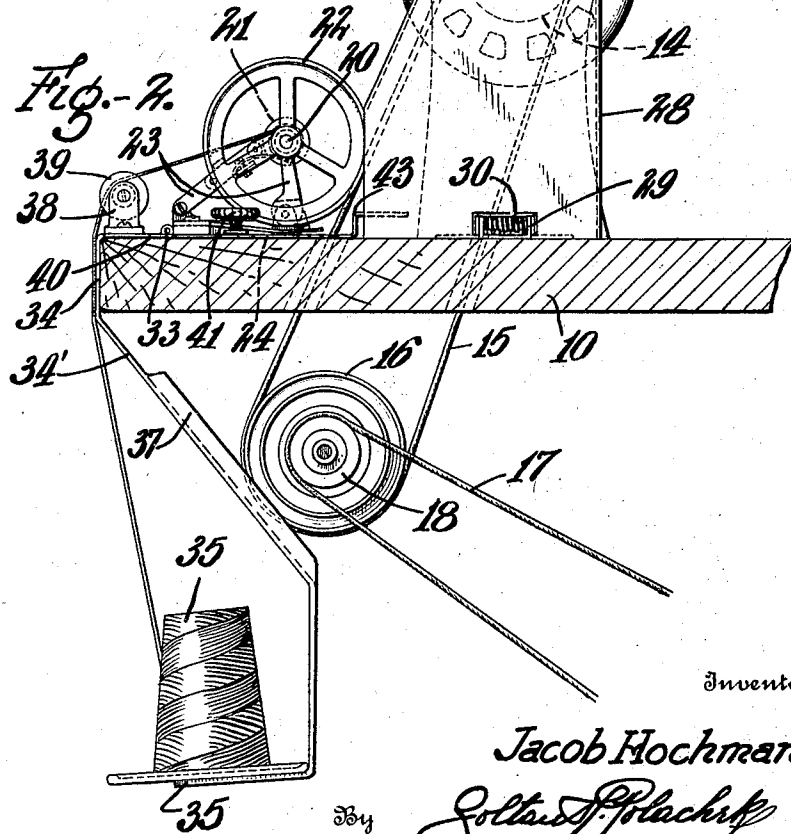


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SAFETY AND BOBBIN WINDER ATTACHMENT FOR SEWING MACHINES.
APPLICATION FILED FEB. 9, 1921.

1,387,005.

Patented Aug. 9, 1921.
2 SHEETS—SHEET 1.



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2 SHEETS--SHEET 2.

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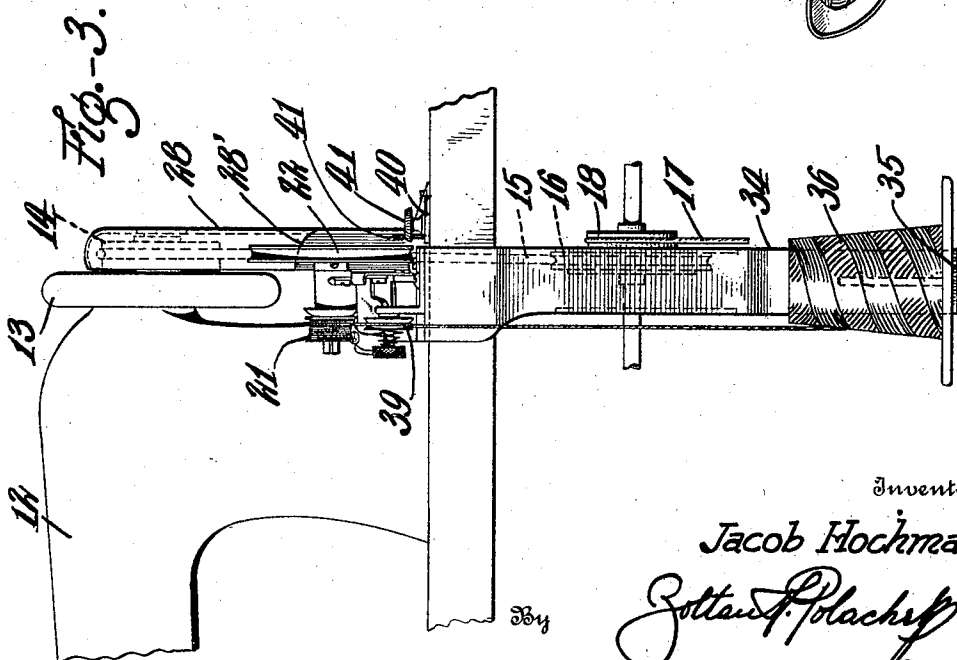


Fig. - 3.

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UNITED STATES PATENT OFFICE.

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SAFETY AND BOBBIN-WINDER ATTACHMENT FOR SEWING-MACHINES.

1,387,005.

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Patented Aug. 9, 1921.

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To all whom it may concern:

Be it known that I, JACOB HOCHMAN, citizen of Hungary, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Safety and Bobbin-Winder Attachments for Sewing-Machines, of which the following is a specification.

This invention relates to sewing machines generally, having more particular reference to an attachment connected with the bobbin rewinding mechanism, and being intended more particularly for use in workshops where the machines are arranged in rows or groups having a common drive means.

In machines of this sort as ordinarily arranged the material being sewed on any one of the machines is liable to become entangled in the individual drive belts, or drive means generally, of adjacent machines.

The present invention has for an object to provide a novel arrangement of covering device for the drive belt and pulleys which can be removed and replaced with great rapidity, and further to provide a novel carrying means for the spool or roll from which the thread is wound upon the bobbins.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Figure 1 of the drawings is a plan view of a group of sewing machines equipped with the invention.

Fig. 2 is an enlarged end view of one of the machines with its bobbin winding attachment, the support or bench being shown in transverse section.

Fig. 3 is a front view showing the attachment in position.

Fig. 4 is a perspective view of the device.

In the drawings the reference numerals 10, indicate a pair of parallel benches along each of which is arranged a row of sewing machines which are driven by a common drive mechanism in a well known manner, this arrangement being such as is in common use in workshops. Referring now in detail to the machine, the reference numeral 12 designating the head of the machine and 13 the fly wheel, which has rigid therewith the pulley 14. This pulley 14 is connected by a belt 15 with a second

pulley 16 under the bench 1. This pulley 16 is driven from the drive shaft (not shown) by a belt 17 looped over a pulley 18 fixed to the pulley 16.

The bobbin winding mechanism comprises a horizontal stub shaft 20 on one end of which is carried the bobbin 21, while the opposite end thereof has fixed thereon a grooved pulley 22 which is adapted to be moved into and out of contact with the belt 15, this pulley being carried on the upper ends of a pair of arms 23 hinged to a base plate 24, which latter is secured on the bench 10 by a screw 25 passing through a slot 26 therein. Further detailed description of the means for shifting the pulley 22 is not considered necessary as these devices are well known to the art and no novelty is claimed for their detail construction, the parts so far described being all in common use.

According to my invention I hinge to the plate 24 a flanged guard or cover 28 for the pulley 14, this guard being here shown as hinged to a bracket 29 on the base 10, a coiled spring 30 tending to swing the guard away from operative position. The flange 28' of the guard may be cut away as at 31 to accommodate the belt 15.

Hinged as at 33 to the outer end of the base-plate 24 is an angular bracket 34 which extends downwardly over the edge of the bench 10 and at an inclination thereunder as at 34', this bracket having a foot 35 at its lower end upon which the reel of thread 36, from which the bobbin is wound, is rotatably mounted. The inclined portion 34' of the bracket 34 extending adjacent the pulleys 16 and 18 is provided on opposite sides with the parallel projecting ears 37 which project on opposite sides of these pulleys and form a guard therefor. Upon the top of this bracket 34 is fixed a bearing member 38 on which is pivoted an idler 39 over which the thread is led to the bobbin 21.

Carried on the bench 10, in operative relation to the guard 28 and bracket 34, is a device which normally retains the guard in operative position and which when moved to release the latter serves to support the bracket 34 with the ears 37 removed from position inclosing the pulleys 16 and 18. This device comprises a bar 40 slidably secured to the bench 10 by a screw 41 passing through a longitudinal slot 42 therein, this bar having at one end a raised finger 43 which engages the face of the guard 28 and

maintains the latter upright against the action of spring 30, a base-flange 28^a on the guard limiting the movement thereof toward the pulley 14. The opposite end of this bar 40 has a lateral offset 44 which projects under the bracket 34.

It is believed the use of the attachment will be readily understood by those skilled in the art. Normally the guard 28 and bracket 34 occupy the position shown in Figs. 1 to 3 of the drawings, in which the belt 15 and its pulleys are shielded from chance entanglement of material being sewed on any of the machines, while the bracket 34 forms in addition a convenient support for the reel 36. When access to the pulleys is desired the screw 41 is loosened, the bracket 34 swung upward, and the bar 40 moved outward until the finger 43 disengages from the guard 28, the latter dropping down. This movement of the bar 40 has projected the offset 44 into a position beyond the edge of the bench 10 and upon the screw 41 being tightened the bracket will be supported in the position indicated in Fig. 4 in which the ears 37 are clear of the pulleys 16, 18.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:—

1. In a sewing machine, in combination with a bobbin winding device adapted for operation by the drive belt of the machine, and a bench supporting said device, a bracket hinged to said device and extending downwardly over the edge of the bench and under the same and adapted to support a reel of thread on its lower end.

2. In a sewing machine, in combination, a drive belt, a pair of pulleys over which said drive belt is looped, a bobbin winding device adapted for operation by the said drive belt, a removable guard for one of said pulleys, a removable guard for the other pulley, means normally urging said first guard to inoperative position, and means releasably holding said first guard in operative position, said last means being adapted when moved to releasing position to support the second guard in inoperative position.

3. In a sewing machine, in combination, a drive belt, a pair of pulleys over which said drive belt is looped, a bobbin winding device adapted for operation by the said drive belt, a removable guard for one of said

pulleys, a removable guard for the other pulley, means normally urging said first guard to inoperative position, and means releasably holding said first guard in operative position, said last means being adapted when moved to releasing position to support the second guard in inoperative position, said last means including a bar adapted to be moved longitudinally of itself and set in different positions.

4. In a sewing machine, in combination, a drive belt, a pair of pulleys over which said drive belt is looped, a bobbin winding device adapted for operation by the said drive belt, a removable guard for one of said pulleys, a removable guard for the other pulley, means normally urging said first guard to inoperative position, and means releasably holding said first guard in operative position, said last means being adapted when moved to releasing position to support the second guard in inoperative position, said last means including a bar adapted to be moved longitudinally of itself and set in different positions, and a member formed on said first guard and adapted to support a reel of thread.

5. In a sewing machine, in combination, a bobbin winding device, a bench supporting said device, a drive belt by which said device is adapted to be operated, a pair of pulleys located one above and one below said bench and over which said belt is looped, a guard hinged to said bench and adapted to cover the upper pulley, said guard having an angularly projecting base flange, a spring normally urging said guard to inoperative position, a bracket hinged to said bobbin winding device and extending downward under the bench and having an outturned foot at its lower end adapted to support a reel of thread, a pair of ears projecting from said bracket and forming a guard for the lower pulley, and a bar movably secured upon the said bench and having at one end a finger engaging said first guard to retain the same in operative position, said bar having a lateral offset at its opposite end adapted to support said bracket with the said ears removed from guard forming position when the said bar has been moved to disengage the said finger from the said first guard.

In testimony whereof I have affixed my signature.

JACOB HOCHMAN.