Dec. 21, 1954 D. G. SHAGER 2,697,243

ELEVATOR FOR SHIFTING SEWING MACHINES

Filed July 10, 1951

Fig. 1

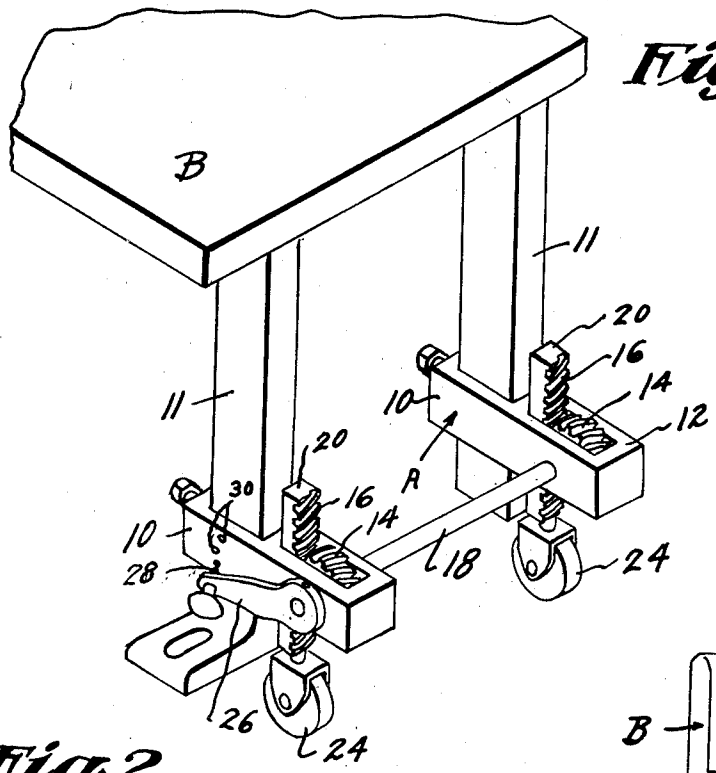


Fig. 3

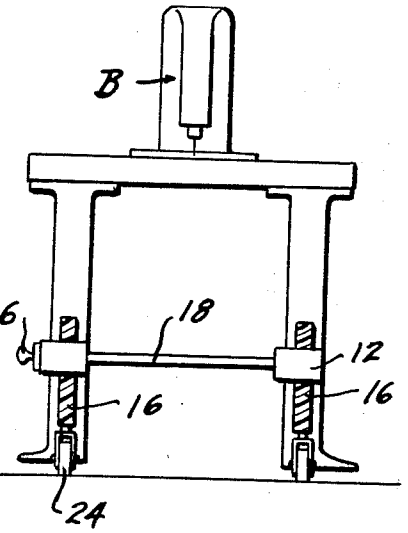
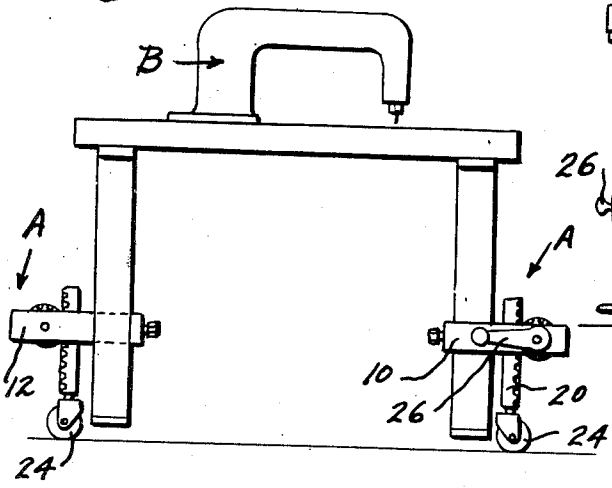


Fig. 2



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ELEVATOR FOR SHIFTING SEWING MACHINES

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1 Claim. (Cl. 16—33)

My invention relates to a sewing machine, and relates particularly to a sewing machine which will enable the machine to be rolled from one place to another.

Heretofore, heavy sewing machines have been shifted around in a factory depending upon the location where they are to be used. Many of these machines are extremely heavy and they required several men to lift them and put them on dollies or to carry them around. This moving of the machines is a relatively costly proposition, is annoying and is difficult.

It is an object of my invention to provide a machine wherein auxiliary elevators having rollers thereon may be attached to move the machine from one place to another.

Another object of my machine is to provide an attachment for elevating a heavy sewing machine which attachment may be quickly and easily attached to the sewing machine.

Another object of my invention is to provide an auxiliary elevator for a sewing machine which will remain in the position to which it is elevated as the weight will not cause the elevator to become depressed.

Other objects of my invention are to provide an elevating device which is easily and economically produced, which is sturdy in construction, and highly efficient in use.

With the above and related objects in view my invention consists in the details of construction and combination of parts as will be more fully understood from the following description when read in conjunction with the accompanying drawing in which:

Fig. 1 is a perspective view of a sewing machine embodying my invention.

Fig. 2 is a side elevational view of the invention of Fig. 1.

Fig. 3 is another view showing the invention.

Referring now in greater detail to the drawing, I show an elevator, generally designated as A, which is adapted to be attached to legs **11** of a sewing machine and table, generally designated as B. The elevator A comprises a clamp **10** which is adapted to fit around one leg **11** of a sewing machine and a unitary formed frame **12** in which a set of complementary beveled gears **14** and **16** are located. The helical gears **14** of two units A are mounted upon a single shaft **18**.

A vertically movable rod **20** having a series of helical teeth **16** thereon is in mesh with the helical spur gear **14**, and at the bottom of the rod **20** is a caster **24**. The rod **20** and its caster **24** are adapted to be elevated or lowered by the rotation of the complementary gear **14**.

In other words, by the rotation of a hand crank **26** which is attached to the shaft **18** one end or two legs of the sewing machine can be raised or lowered. The hand crank **26** is permanently attached to one end of the shaft **14**. It also is pointed out that the turning of the crank raises both wheels at one end and there is a lock so that a pin **28** on the hand crank **26** can fit into one of a series of openings **30** to hold the crank in a fixed position.

Referring to Fig. 2 it can be seen that one set of these devices is attached to each end of the table and they can be removed from one machine after it is in position and attached to a second machine, hence the operation of moving heavy sewing machines can be performed by one man.

The shaft **18** is provided with an involute or spiral gear so that when the gear is turned it will not have a tendency to move by virtue of a weight being imposed thereon as it would be in the case of a spur gear.

Since the sewing machines have four legs, I preferably build my unit to have two casters and elevators integrally joined together.

Although my invention has been described in considerable detail, such description is merely intended as illustrative rather than limiting, as my invention may be variously embodied, and the scope of the invention is to be determined as claimed.

I claim as my invention:

A movable support means for a sewing machine table comprising a pair of spaced, parallel brackets, each of said brackets having one portion adapted to releasably clamp a leg of said table and having another portion adapted to hold an adjustable mounting for a castor therein, each of said second portions having an opening therein, a pinion positioned in each of said openings, said pinions being connected to each other by a shaft extending therebetween, said shaft passing through openings formed in the sides of said brackets, a rack positioned in each of the openings of said second portions, each of said racks having gear teeth on one face thereof adapted to mesh with the gear teeth on its corresponding pinion, a castor support at one end of each of said racks, a castor rotatably mounted in each of said castor supports, and a crank handle connected to at least one end of said shaft, whereby when said handle is turned said shaft is rotated to rotate said pinions which, in turn, act to reciprocate said racks in unison, said pinion being concentric with said shaft and wherein the gear teeth of said pinion extend radially from the periphery thereof to mesh with the gear teeth of the rack, said last mentioned gear teeth lying in a plane which is substantially parallel to said shaft.

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