

(No Model.)

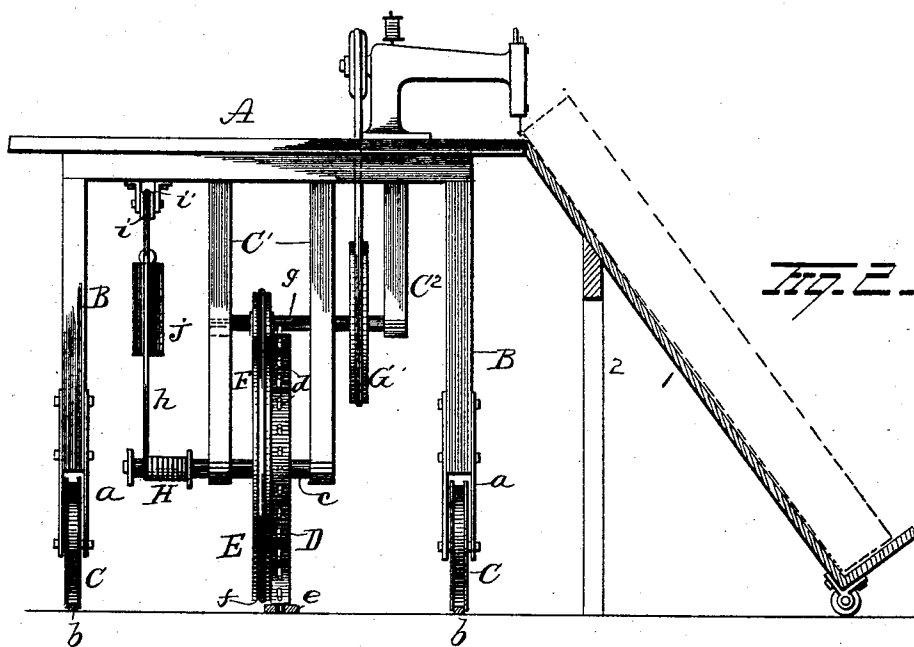
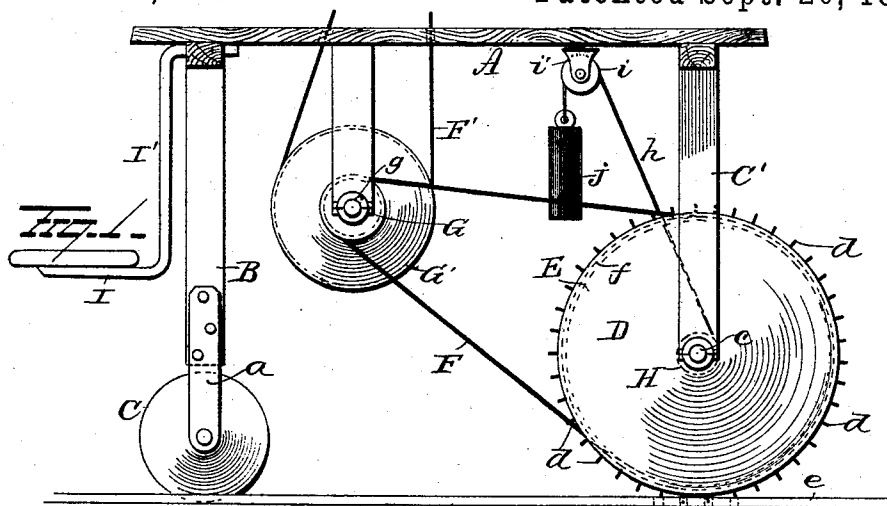
2 Sheets—Sheet 1.

M. W. LAWRENCE.

CARRIAGE FOR CARRYING AND OPERATING SEWING MACHINES.

No. 482,829.

Patented Sept. 20, 1892.



Witnesses

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G. J. Downing

Inventor

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Attorney

(No Model.)

2 Sheets—Sheet 2.

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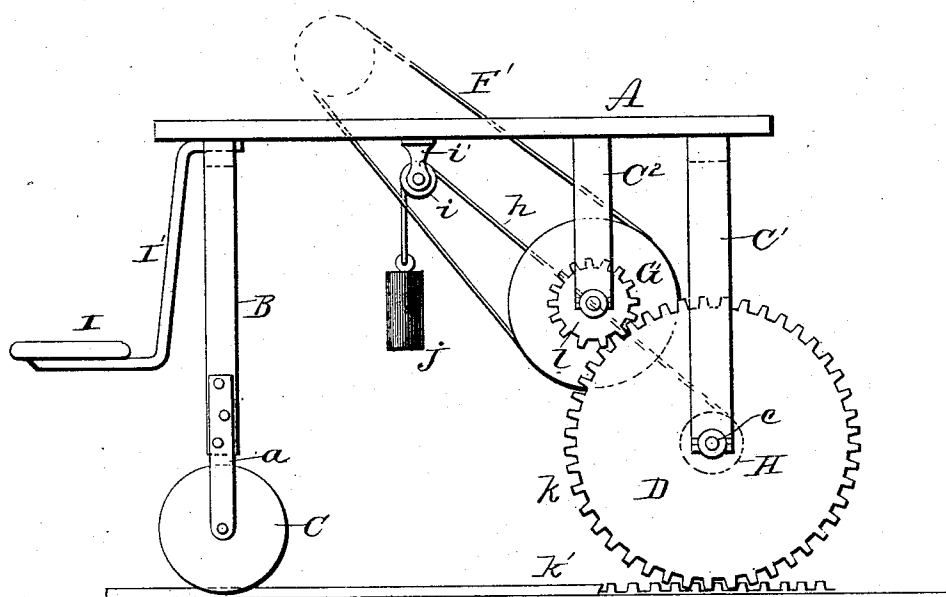


Fig. 3.

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UNITED STATES PATENT OFFICE.

MELTIAH W. LAWRENCE, OF GARDINER, MAINE.

CARRIAGE FOR CARRYING AND OPERATING SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 482,829, dated September 20, 1892.

Application filed October 28, 1891. Serial No. 410,058. (No model.)

To all whom it may concern:

Be it known that I, MELTIAH W. LAWRENCE, a citizen of Gardiner, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Carriages for Carrying and Operating 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.

My invention relates to an improvement in carriages for supporting and operating a sewing-machine, its object being to provide means for supporting and operating a sewing-machine for sewing mattresses and other large bodies, which means shall be simple in construction and effectual in the performance of its functions.

A further object is to so construct a carriage and mechanism for carrying a sewing-machine that the travel of the carriage and operation of the sewing-machine shall be automatic.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the device, the platform being shown in section. Fig. 2 is an end view. Fig. 3 is a view of a modification.

A represents the platform of the device, on which a sewing-machine of any preferred construction is located. Secured to and depending from the timbers which support the platform, at one end of the latter, are two depending legs B, to the lower ends of which brackets *a* are secured. Wheels C, having grooved peripheries, are journaled in the brackets *a* and run upon tracks *b*, located on the floor of the apartment in which the device is to be used. Depending from the other end of the platform A are two brackets or hangers C' C', in which a shaft *c* is journaled. This shaft has keyed or otherwise secured to it two wheels D E of wood or other suitable material. If desired, these wheels D E may be made of a single piece or they may be made separate and secured together in any suitable manner. The wheel D is provided with a series

of peripheral projections *d*, which mesh with a perforated or socketed strip *e*, secured to the floor, and the wheel D also serves to support one end of the carriage. The wheel E is made with a peripheral groove *f* for the accommodation of a strap F, which also passes over a pulley G, carried by a shaft *g*, mounted in the brackets or hangers C' C'. A grooved pulley G' is located on the shaft *g* between the brackets C' and C'. Over this pulley a strap F' passes, said strap being adapted to pass through suitable openings in the platform and transmit motion to the sewing-machine located on said platform. The shaft *c* is extended beyond its bearing in the hangers C', as shown in Fig. 2, and provided with a drum H, on which a cord or rope *h* is wound. The cord or rope *h* is passed over a pulley *i*, supported in a bracket *i'*, which latter is secured to the under side of the platform A, and to the end of the cord or rope *h* a weight *j* is attached.

When the machine is thus constructed, the mattress, carpet, or other article to be sewed is placed in proximity to it and supported in a suitable manner, and a seat I is removably secured to the platform A for the accommodation of the operator. When a mattress is to be sewed up, the frame 1, which supports it, will be disposed obliquely, so as to present the edge of the mattress to the sewing-machine, and said frame will be supported by means of a support 2. When carpet is to be sewed, it will be properly matched and supported on a long board or table in close proximity to the machine. The table will preferably be about four feet high, and the bracket I' of the seat I will preferably be secured to one end of the table or platform A and made to enter a dovetail socket on the under side of the platform, so that the seat will be somewhat below the table or platform, and said seat is so located that the platform will be properly balanced and the sewing-machine will be at the operator's left-hand side. If desired, the seat may be secured to the platform by means of bolts. The weight *j* causes the shaft *c* to rotate. The wheel D, carried by said shaft, will mesh with the perforated or socketed strip *e*, and thus propel the device. At the same time motion is transmitted from the wheel E to the pulley G through the medium

of the strap F, and from the pulley G through the shaft *g* to the pulley G', and from the last-mentioned pulley through the strap F' to the sewing-machine on the platform A. Thus
 5 it will be seen that the device is propelled and the sewing-machine operated automatically by the weight *j*. The speed of the device may be regulated by the size of the wheel D or the weight *j*, as desired.

10 Instead of making the wheel D of wood and providing it with peripheral projections a metallic gear-wheel *k* may be substituted, as shown in Fig. 3, and a metallic rack-bar *k'* be provided in lieu of the wooden socketed strip
 15 *e*. With this construction the band-wheel E, strap F, and pulley G may be dispensed with, and in the place of the pulley G a pinion *l* may be provided and adapted to mesh with the gear-wheel *k*.

20 By means of a device such as above described heavy material—such as carpets, mattresses, &c.—may be sewed easily, quickly, and effectually while in a stationary position, while the carriage travels automatically in proximity to it, and the machine is operated by the
 25 same devices which propel the carriage.

The device is very simple in construction, cheap to manufacture, easy to operate, and effectual in the performance of its functions.

30 Numerous slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope. Hence I do not wish to limit myself to the precise details of construction herein set forth; but,
 35

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

1. The combination, with a carriage and
 40 tramway, of a wheel carried by the carriage

and provided with peripheral projections adapted to engage the tramway, whereby the carriage is moved, means for automatically turning the wheel in one direction, a shaft
 45 actuated by the wheel, a sewing-machine, and belts for imparting motion from the wheel to the sewing-machine, substantially as set forth.

2. The combination, with a carriage and a rack-bar located on the floor, of a wheel carried by said carriage and having peripheral
 50 projections adapted to mesh with the rack-bar, a cord or rope wound upon the shaft of said wheel and carried over a pulley on the carriage, a weight secured to the free end of said cord or rope, and means for transmitting
 55 motion from said wheel to a sewing-machine on the carriage, substantially as set forth.

3. The combination, with a carriage and a sewing-machine located thereon, of a wheel having peripheral projections, a rack-bar,
 60 with which said wheel meshes, a cord or rope wound on the shaft of said wheel and passing over a pulley on the carriage, a weight secured to the free end of said rope or cord, a band-wheel on the same shaft with the first-men-
 65 tioned wheel, a pulley carried by the carriage, a band passing over said pulley and band-wheel, a band-wheel carried by the same shaft with the pulley, and a strap for transmitting motion from said last-mentioned band-wheel
 70 to the sewing-machine on the carriage, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MELTIAH W. LAWRENCE.

Witnesses:

C. H. McCAUSLAND,
 JOSEPH T. BARDSLEY.