

A. WARTH.
MECHANICAL MOVEMENT.

No. 172,803.

Patented Jan. 25, 1876.

Fig. 1.

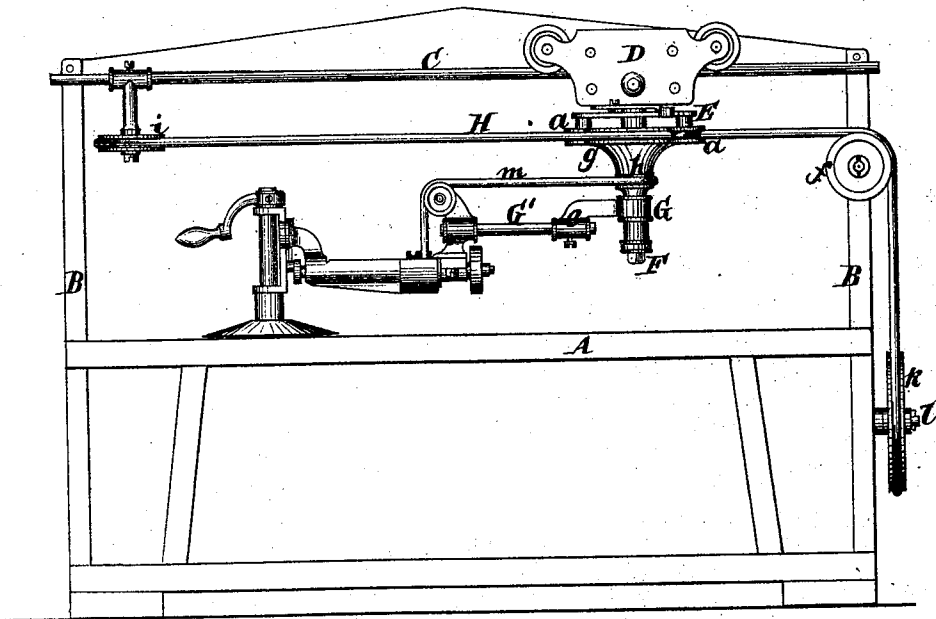
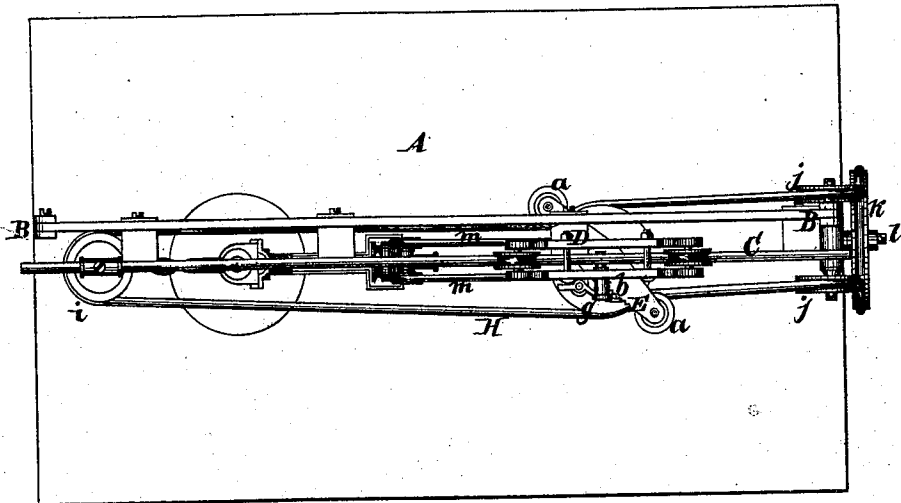


Fig. 2.



Witnesses.

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ALBIN WARTH, OF STAPLETON, NEW YORK.

IMPROVEMENT IN MECHANICAL MOVEMENTS.

Specification forming part of Letters Patent No. **172,803**, dated January 25, 1876; application filed December 23, 1875.

To all whom it may concern:

Be it known that I, ALBIN WARTH, of Stapleton, in the county of Richmond and State of New York, have invented a new and Improved Mechanical Movement, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view. Fig. 2 is a plan or top view.

Similar letters indicate corresponding parts.

This invention relates to certain improvements on a mechanical movement which I have described in my Patent No. 151,457, dated May 26, 1874; and which consists, essentially, of a carriage which is acted on by a traveling belt that receives a continuous motion from some source, said carriage being provided with a pulley and with a swivel-standard, the swivel-standard forming the bearing for a rod, which connects the carriage with a working machine, to which the pulley serves to transmit motion.

My present improvement consists in the combination, with the traveling belt and with the carriage, of a rail supported by standards which rise from the work table or bench, said carriage being provided with a clamp for throwing it into gear with the traveling belt, with a power-transmitting pulley, and with a depending swivel-standard, forming the bearing for a rod that connects with the working machine, so that said working machine can be moved clear round under the guide-rail of the carriage, and under the traveling belt, and thereby the convenience in operating the working machine is materially improved.

In the drawing, the letter A designates a table, to which are secured two standards, B B, which support the guide-rail C of the carriage D.

This carriage may be constructed in the form of a simple tube, which slides freely on the rail C; or it may be furnished with friction-rollers bearing on the guide-rail, so as to facilitate its motion; or it may be constructed in any suitable manner.

From this carriage extends a depending arbor, F, on which turns an arm, E, which carries two rollers, *a a*, and which can be retained

in the required position by a pawl, *b*, or by any other equivalent means. On the lower end of the depending arbor F is fitted a standard, G, which turns freely in either direction, and which is provided with an arm carrying a socket, *e*, for the reception of a rod, G', that forms the connection with the working machine. On the depending arbor are mounted loosely two pulleys, *g h*.

The pulley *g* is situated between the two rollers *a a* of the arm E, in the plane of a belt, H, which is stretched over a pulley, *i*, secured to a hanger which depends from the rail C, and it (the belt) runs over two pulleys, *j j*, to a pulley, *k*, which is mounted on the driving-shaft *l*.

The pulleys *i* and *j j* are so arranged that the belt H moves loosely past the pulley *g*; but, by turning the arm E, the rollers *a a* on said arm press the belt H up against the pulley *g*, and the motion of said belt is transmitted to this pulley.

The pulley *h* is firmly connected to the pulley *g*, and a belt, *m*, stretched over said pulley *h* transmits the motion to the working machine.

By this arrangement the working machine can be moved over the table A in any desired direction, and it can be swung clear round in a circle without throwing it out of gear with the traveling belt.

My mechanical movement is designed particularly for the purpose of imparting motion to machines for cutting textile and other materials, and I have found that in cutting goods which are two yards (more or less) wide it is very desirable that the cutting mechanism can be moved freely under the traveling belt, so that the operator can conveniently handle the same from both sides of the table A.

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

In a mechanical movement composed of a traveling belt, a carriage which connects with the working machine, and a clamping device for throwing the traveling belt in gear with the carriage, I claim the combination, with the traveling belt and the carriage, of a rail supported by standards above the work

table or bench, said carriage being provided with a clamp for throwing it in gear with the traveling belt, with a power-transmitting pulley, and with a depending swivel-standard, forming the bearing for a rod that connects with the working machine, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 18th day of December, 1875.

ALBIN WARTH. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.