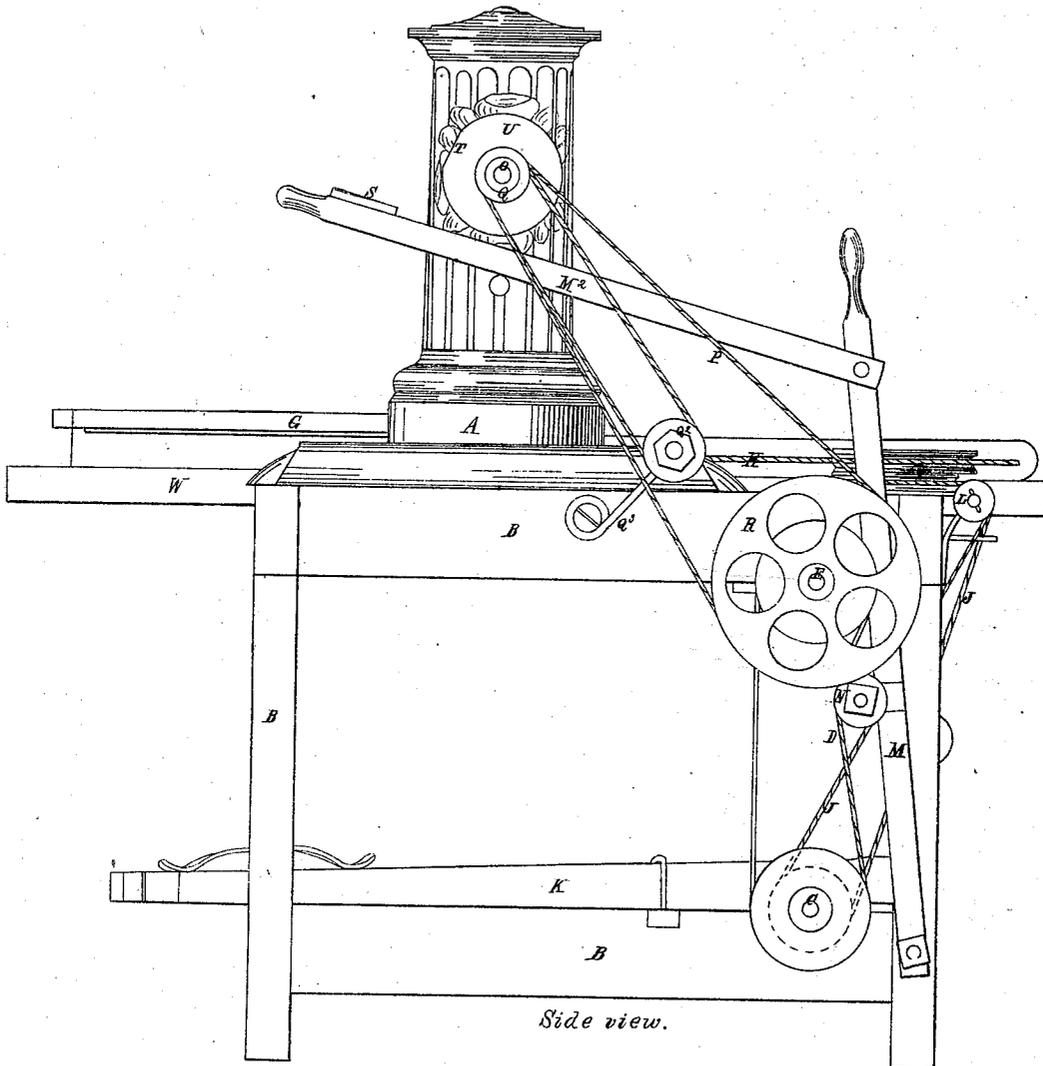


W. Fiske.  
Sewing-Machine.  
N<sup>o</sup> 72180  
Patented Dec. 17, 1867.

Fig. 1.



Witnesses.

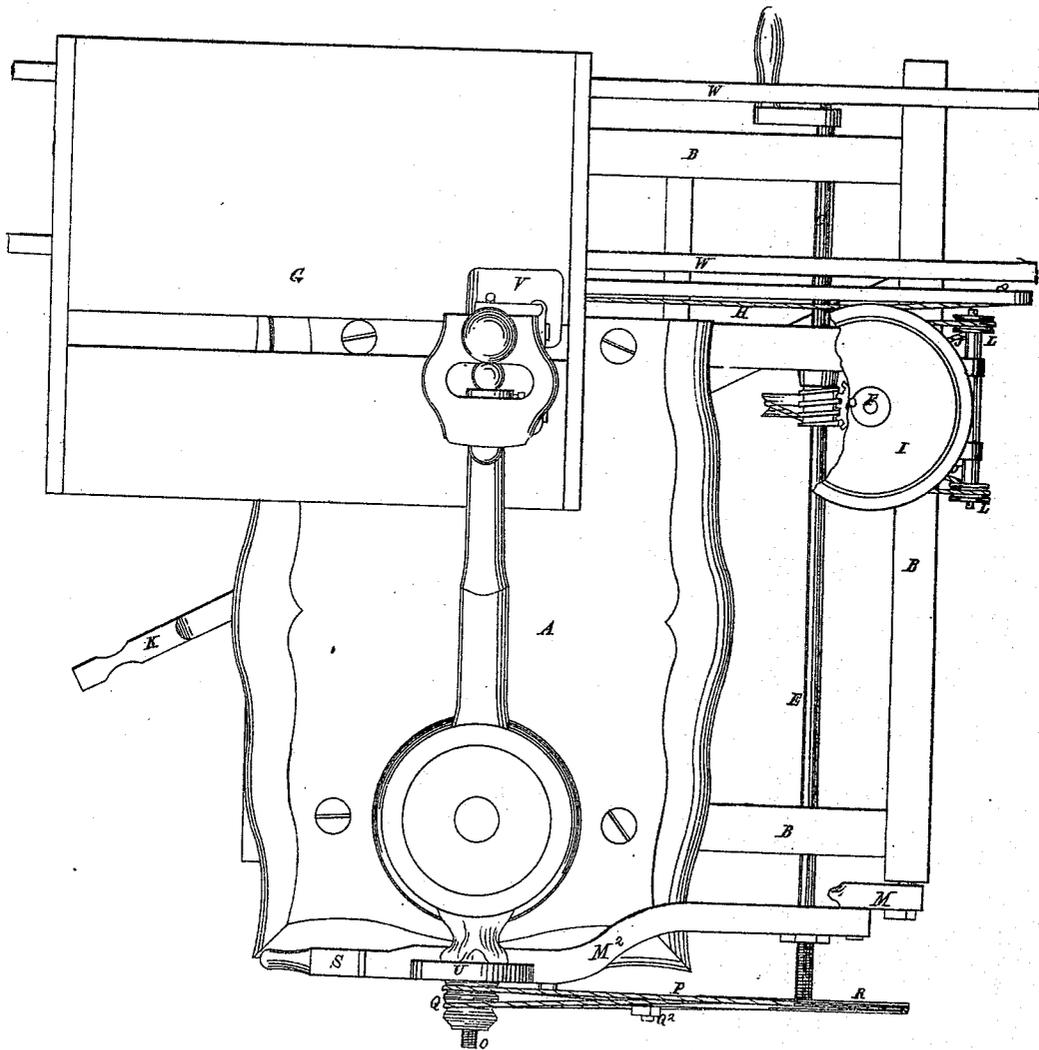
Asahel Davis  
Albert H. Mansfield

Inventor.

William Fiske.

W. Fiske.  
Sewing-Machine.  
N<sup>o</sup> 72180  
Patented Dec. 17, 1867.

Fig. 2.



Plan.

Witnesses.

Asahel Durris  
Albert H. Mansfield.

Inventor.

William Fiske.

# UNITED STATES PATENT OFFICE.

WILLIAM FISKE, OF LOWELL, MASSACHUSETTS.

## IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 72,180, dated December 17, 1867.

*To all to whom these presents shall come:*

Be it known that I, WILLIAM FISKE, of Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented a new and Improved Method of Feeding Fabric while being Stitched by a Sewing-Machine; and I hereby declare that the following specification, in connection with the accompanying drawings and references marked thereon, constitutes a clear and exact description of the construction, operation, and application of the same.

In referring to said drawings, Figure 1 represents a side view, and Fig. 2 the plan or top view, of my machine, similar letters on both figures denoting the same object.

### *Invention.*

The nature of my invention consists in imparting motion to a table or support on which lies the fabric while being stitched.

### *Construction.*

To enable others to make and use my invention, I will now proceed to describe its construction.

I take a sewing-machine, A, of any desired pattern or make, and put it upon the frame B B B.

The shaft C first receives motion, and transmits the same to the machine A, first, by means of belt D, to shaft E, which gives motion to shaft F by means of a connected worm and worm-gear upon said shaft, shaft F at the same time carrying the table G forward by means of a cord, H, which is passed over the pulley I and fastened to each end of the table G; secondly, by means of belt J J, which communicates to shaft F (after the communication between worm and worm-gear on shafts E and F has been discontinued by means of a shipper, K, hereafter described) a quick and reversed motion, which carries the table G back after having run the length of the fabric.

L L are carriers for belt J J.

The shipper K, operated by hand or foot, is to throw the worm on shaft E out of gear with the worm-gear on shaft F, and at the same time to tighten belt J, which, by means of pulley I, carries the table G back.

M M<sup>2</sup> is a double shipper, which, with pulley N, attached to shipper M, tightens belt D when drawn toward said belt.

The sewing-machine shaft O receives motion through belt P and pulleys Q and R, when belt D is held tight; when loosened by shipper M M<sup>2</sup> being reversed, a friction or brake, S, on shipper M<sup>2</sup> is brought in contact with a detent, T, on balance-wheel U, by which means the needle, and also the presser-foot V, are held up, while the table G with the work is carried back under them.

W W are rails, on which the table traverses.

The belt P runs over the tightener-pulley Q<sup>2</sup> and back over pulley Q.

The pulley Q<sup>2</sup> may be adjusted to increase the adherence of the belt on the pulley Q.

The double groove in pulley Q is to prevent the belt from crowding or chopping.

The spring Q<sup>3</sup> supports pulley Q<sup>2</sup>, and maintains the belt P at a given tension by taking up the stretch of the belt.

### *Disclaim.*

I do not claim a sewing-machine for stitching large fabrics, as that is a well-known mechanism; neither do I claim a table for supporting said fabric, as it appears that that is well known; neither do I claim feeding the table when fed by the feed of the sewing-machine proper.

It will readily be seen that feeding the cloth or fabric by the feed of the sewing-machine proper subjects the machine-feed to an undue strain, and draws the cloth or fabric out of line, the cloth being supposed to be heavy, and also the table; but by feeding the table in the manner described I get an even draw upon the table, which carries the cloth, not by uneven pulls or jerks, as when drawn by sewing-machine feed, but by an even draft by means of worm and worm-gear, which carries the table, the table carrying the cloth or fabric.

### *Claim.*

I claim and desire to secure by Letters Patent—

1. The combination of a sewing-machine with a movable table by means of cord H and pulley I and shaft F, worm and worm-gears on

shafts E and F, and cord J J with shaft C, substantially as herein set forth and described.

2. The band P on pulleys R and Q, with tightener Q<sup>2</sup>, Fig. 1, for transmitting power from shaft E to shaft O, substantially as set forth, and for the purpose described.

3. I claim the shipper M, tightener N, belt D, shafts E F, and cord H, for the purpose herein set forth.

4. I claim the brake S on shipper M<sup>2</sup>, in connection with detent T and balance-wheel U, as fully set forth, and for the purposes described.

WILLIAM FISKE.

Witnesses:

ALBERT K. MANSFIELD,  
ASAHEL DAVIS.