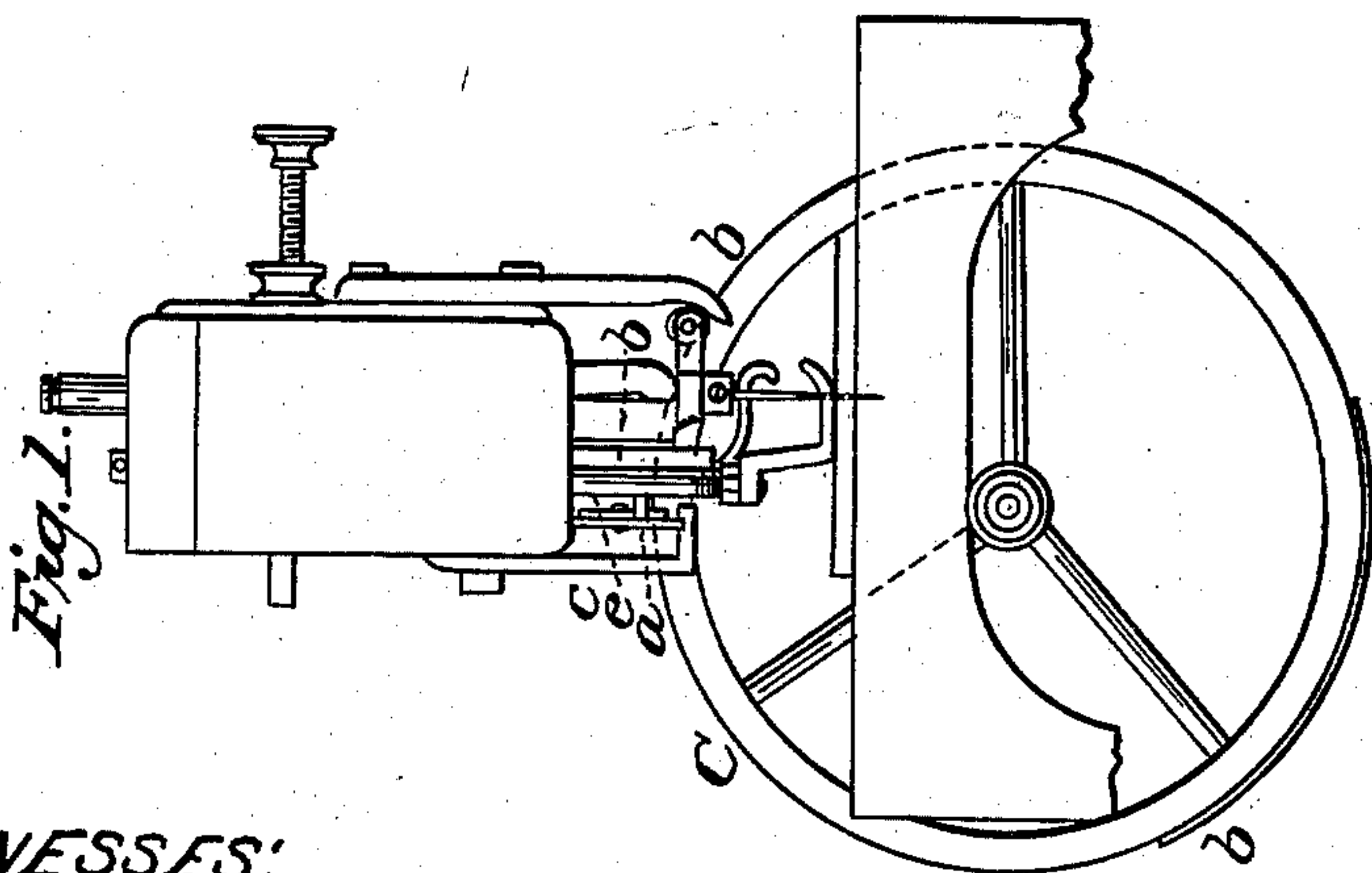
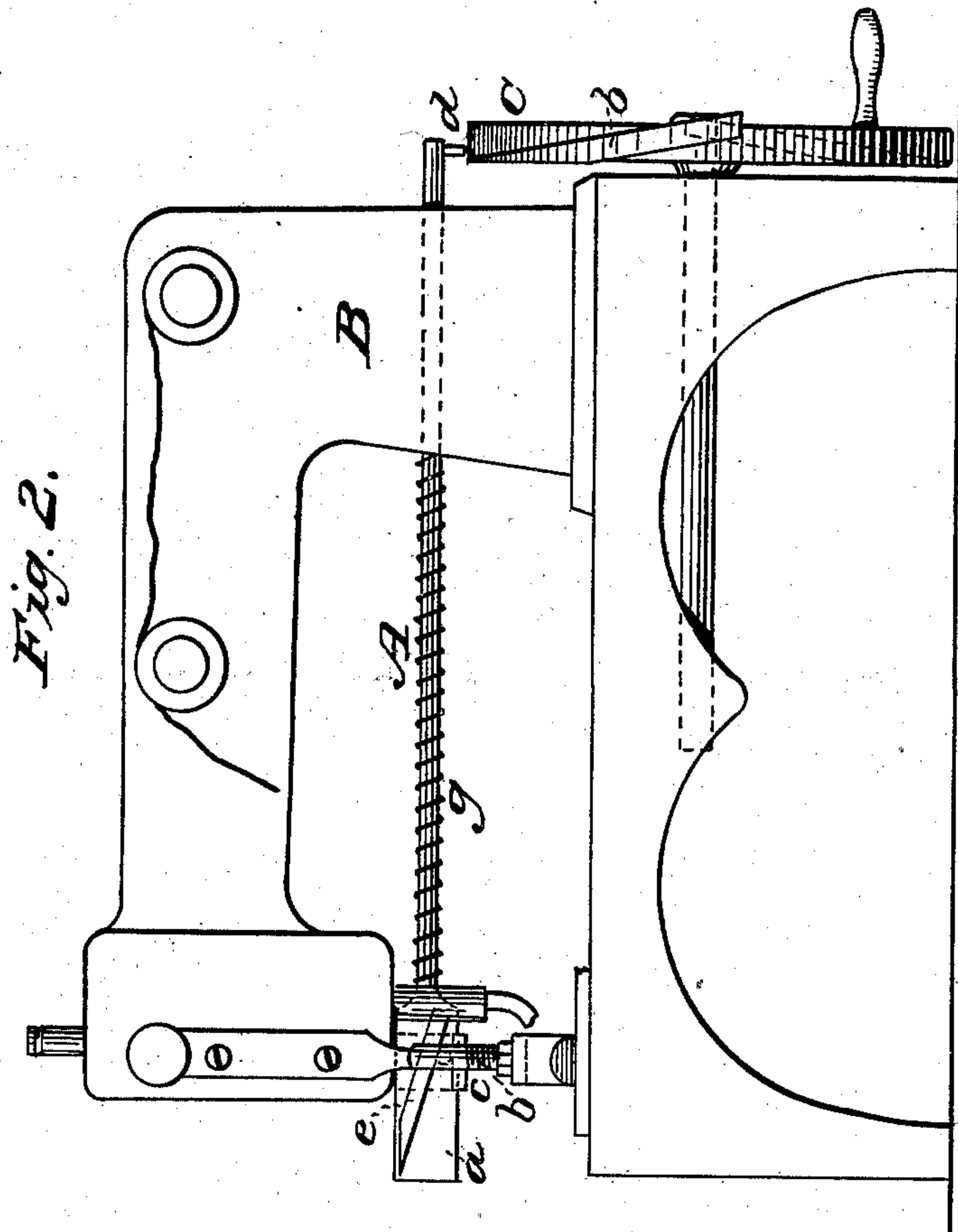


G. ELMES.  
Sewing Machine.

No. 67,965.

Patented Aug. 20, 1867.



WITNESSES:  
J. Leo Insche  
W. E. Ewing

INVENTOR  
G. Elmes  
per Munnich  
Atty

# United States Patent Office.

GEORGE ELMES, OF CHESTERTOWN, NEW YORK, ASSIGNOR TO HIMSELF  
AND F. B. WELLS, OF CANAAN, NEW HAMPSHIRE.

*Letters Patent No. 67,965, dated August 20, 186*

## IMPROVEMENT IN SEWING MACHINES.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE ELMES, of Chestertown, Warren county, New York, have invented a new and useful Improvement in Wax-Thread Sewing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an end view of my improved device for bearing down the presser-foot of a sewing machine upon leather.

Figure 2 is a side view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement on Townshend's wax-thread sewing machine, and consists in a reciprocating rod affixed to the machine in such a manner that cams placed on the driving-wheel shall move it in one direction, while a spiral spring shall move it in the opposite direction for the purpose of bearing down the presser-foot firmly on leather of any thickness, while it is sewed, the operation being such that the pressure is withdrawn when the feed movement takes place, twice in every revolution of the driving-wheel.

A is a reciprocating rod, designed for connection with a wax-thread sewing machine, for sewing leather. One end of the rod has a long, flat shovel-head, *a*, which is placed vertically at the head of the machine alongside of the presser-foot bar *b*, and runs in grooves supported by an iron side piece, *c*, fastened to the machine. The other end of the rod A passes through the standard B of the supporting-arm of the machine, extending to the driving-wheel C, on the periphery of which are cams *b b*, placed diagonally to catch against a pin, *d*, on the end of the rod A, for drawing it outward and liberating the presser-foot at the moment the leather passes under it. On one side of the flat head *a* of the rod A, is placed an incline, *e*, that acts as a cam by catching against a pin on the side of the presser-foot bar *b*, to force it down and press the foot hard upon the leather, for holding it tight while the needle is in the cloth, which action of the rod A is produced by a spiral spring, *g*, coiled around it, that throws the rod forward the moment the pin *d* is released by either cam *b*.

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

The reciprocating rod A, provided with the incline *e* on the head *a*, the pin *d*, and the spiral spring *g*, in combination with the driving-wheel C and presser-foot of a wax-thread sewing machine, arranged and operating substantially as and for the purposes herein shown and described.

GEORGE ELMES.

Witnesses:

T. OLCOTT,  
CHARLES D. TULL.