

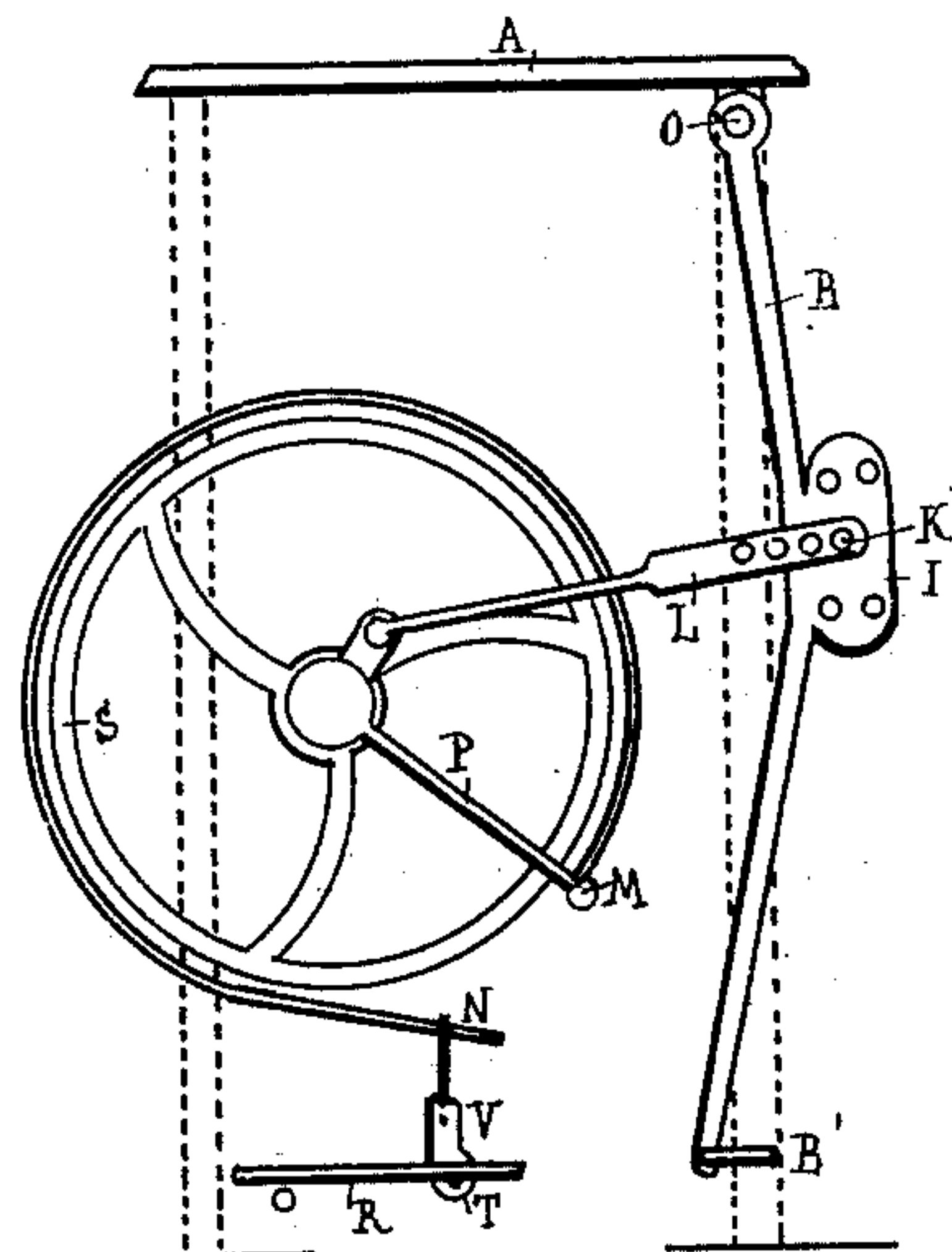
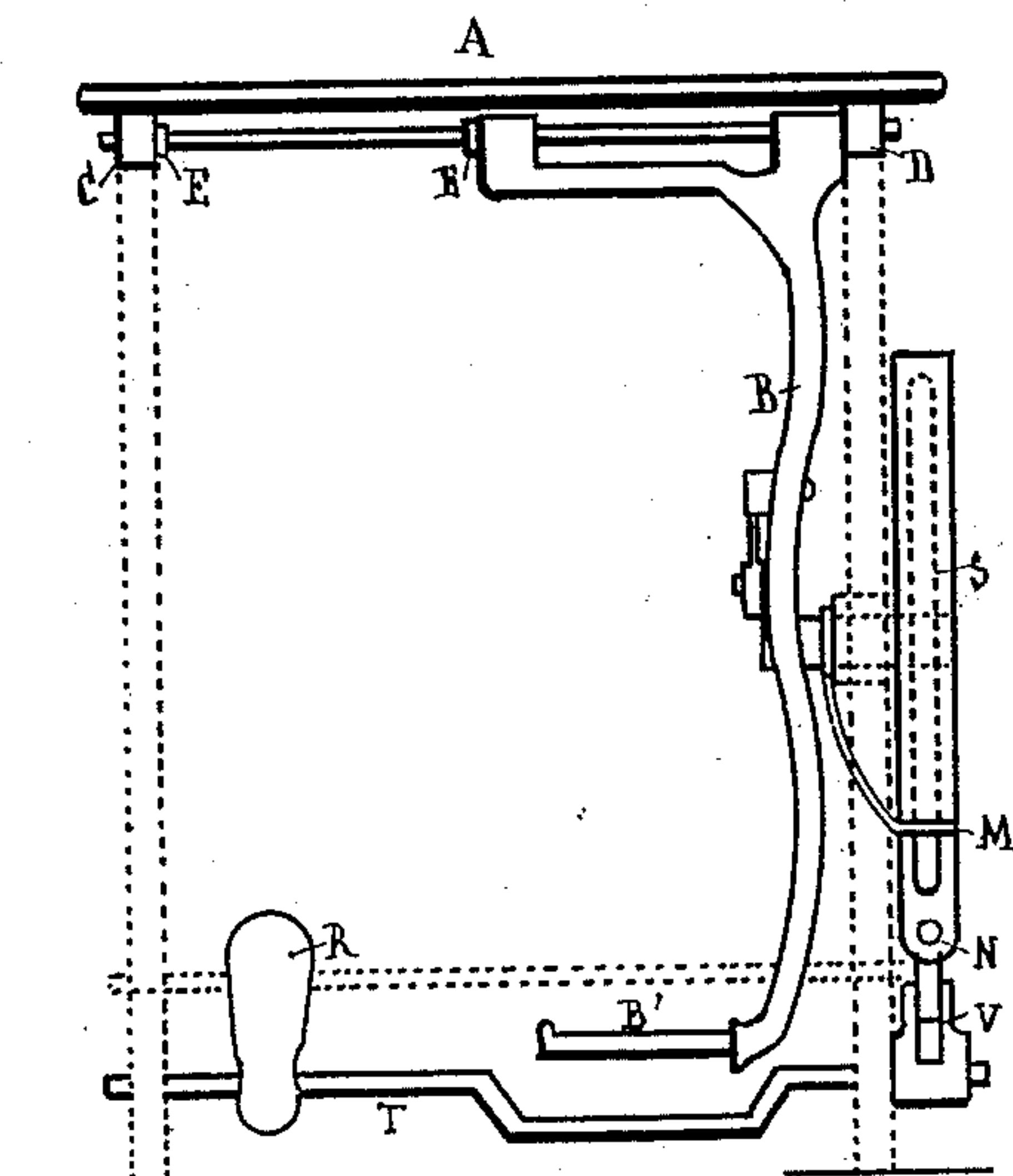
(No Model.)

F. L. E. COULVIER.  
TREADLE FOR SEWING MACHINES.

No. 314,806.

Patented Mar. 31, 1885.

Fig. 1



WITNESSES:

*Elise Maynard*  
*Concubine General*  
*de la Courtois de Bohem*  
*Mansuet*

INVENTOR:

*Felix L. E. Coulvier*

# UNITED STATES PATENT OFFICE.

FELIX L. E. COULVIER, OF BOHAIN, AISNE, FRANCE.

## TREADLE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 314,806, dated March 31, 1885.

Application filed January 15, 1885. (No model.) Patented in France November 27, 1884, No. 153,009.

*To all whom it may concern:*

Be it known that I, FELIX LOUIS EUGÈNE COULVIER, a citizen of France, residing at Bohain, Aisne, France, have invented new and  
5 useful Improvements in Treadles for Sewing-Machines, (for which I have obtained a patent in France, No. 153,009, bearing date November 27, 1884,) of which the following is a specification.

10 My invention relates to new or improved treadles for sewing-machines, by one of which full speed may be attained much more rapidly than with the treadles now in use, and by the other of which the machine may be stopped  
15 instantaneously without shock or effort. I attain this result by means of the mechanism illustrated in the accompanying drawings, in which—

20 Figure 1 is a front view of the mechanism, and Fig. 2 is a side view of the same.

Similar letters indicate similar parts in the two figures.

25 The treadle B B', for the purpose of accelerating the speed, consists of a vertical elbowed lever at the right of the machine, and swinging on a horizontal iron rod fastened under the table A by the hinges C and D. Two fixed collars, E E, prevent any shifting. The right foot is placed on B'.

30 The treadle B B' is furnished with an ear, I, in which are several holes for the suitable placing of the pin K of the connecting-rod L. The ear I is the main part of the invention. By it the necessary length may be given to

the connecting-rod, so that the treadle may  
35 be swung under the table and beyond a vertical line passing through the point O of the treadle, and the leg in working is never bent backward, as with the other treadles now in use.

40 To stop the machine instantaneously, I use a brake consisting of a flat spring, M N, the end of which is fixed at M to a rod, P, keyed on the shaft of the fly-wheel. The said spring-brake almost surrounds the fly-wheel S, and  
45 it is covered inside with leather, riveted or otherwise. When the treadle R is pressed by the heel of the left foot, the treadle acts upon the brake M N by means of a connecting-rod, T, combined with a sliding cam, V, the end of  
50 which is fastened firmly at the point N to the other end of the brake M N.

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

1. In a sewing-machine, the oscillating  
55 treadle B B', provided with the ear I, in combination with the fly-wheel S and the connecting-bar L, adjustably connected with the ear, substantially as described.

2. In a sewing-machine, the treadle R and  
60 connecting-rod T, in combination with the sliding cam V, spring-brake M N, connecting-rod P, and fly-wheel S, substantially as described.

FELIX L. E. COULVIER.

Witnesses:

ELISÉE ALAVOIRE,  
J. EAUSENET.