

Charles H. Willcox's  
Improvements  
in  
Sewing-Machine Tables,

106242

Assignor to  
The Willcox & Gibbs  
Sewing Machine Co.

PATENTED AUG 9 1870

Fig. 1

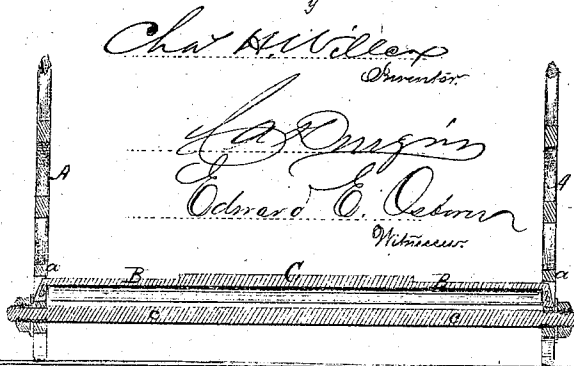
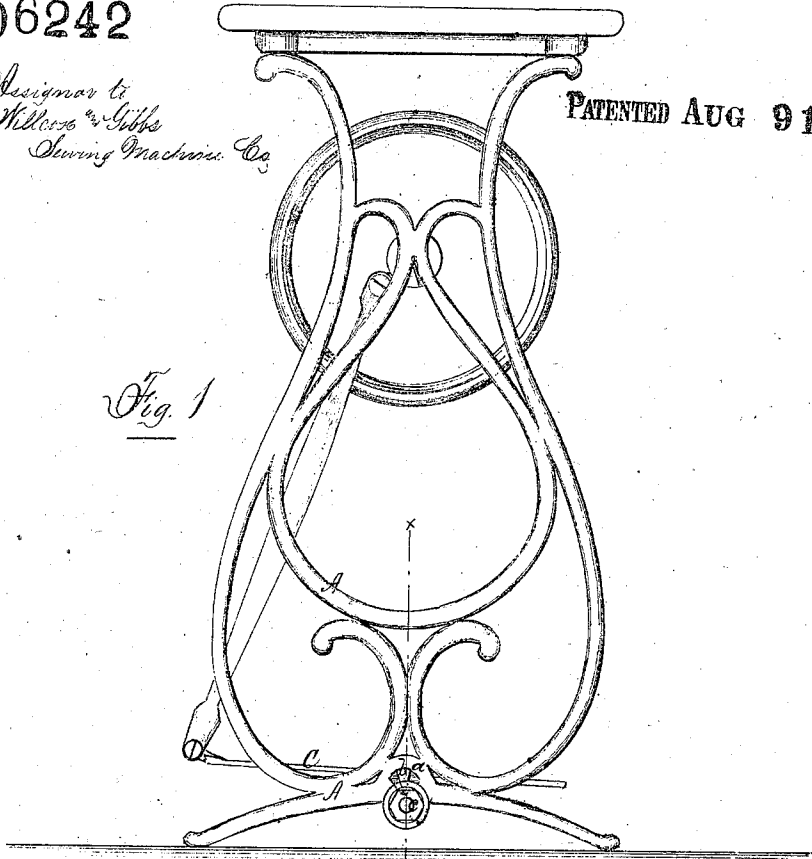


Fig. 2

# UNITED STATES PATENT OFFICE.

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SEWING MACHINE COMPANY, OF NEW YORK, N. Y.

## IMPROVEMENT IN SEWING-MACHINE TABLES.

Specification forming part of Letters Patent No. 106,242, dated August 9, 1870.

*To all whom it may concern:*

Be it known that I, CHARLES H. WILLCOX, of the city, county, and State of New York, have invented a new and useful Improvement in Sewing-Machine Tables, of which the following is a specification.

My invention consists in a novel combination and arrangement of parts with the treadle of a table for sewing and other light machinery, its object being to greatly facilitate the operation of the machine by reducing the friction of the working parts of the treadle.

In the drawings, Figure 1 is a side elevation of a sewing-machine table constructed after the plan of my invention. Fig. 2 is a vertical section through the line *xy*, Fig. 1.

The bar B, to which the treadle C is secured, and upon which it rocks as an axis, is formed at each end into a triangular knife-edge projection, *b*, of suitable size to fit the V-shaped bearings *a* in the lower part of the side frames, A, and the bar is prevented from having any undue lateral movement by the washers upon the ends of the tie-rod *e*, which holds the lower part of the frame together.

The ends of the bar B are beveled off, as shown in Fig. 2, in order to reduce the bearing-surface of the ends against the frame, and

bring the bearings as near as possible to the center of motion, and thus reduce the friction of the parts. The only working parts in contact being the lower edge of the knife-edge *b* and the angular seat in the bearing *a*, the friction between them is very slight, so that there is little or no necessity to lubricate the same.

The V-shaped seat of the bearings *a* may be formed of a separate piece of hard metal let into a groove in the frame, or otherwise applied to it, and the ends *b* may be formed also of a piece of hard metal, so that the wear of the parts in contact will be very slight, and all rattling or loose jarring motions entirely prevented.

What I claim as my invention is—

The rock-shaft B, beveled at the ends, and provided with V-shaped bearings *b*, extending to the center of motion of the rock-shaft B, and supported in a V-shaped bearing-seat, *a*, in combination with a treadle movement, substantially as and for the purposes set forth and specified.

CHAS. H. WILLCOX.

Witnesses:

C. A. DURGIN,  
EDWARD E. OSBORN.