

(No Model.)

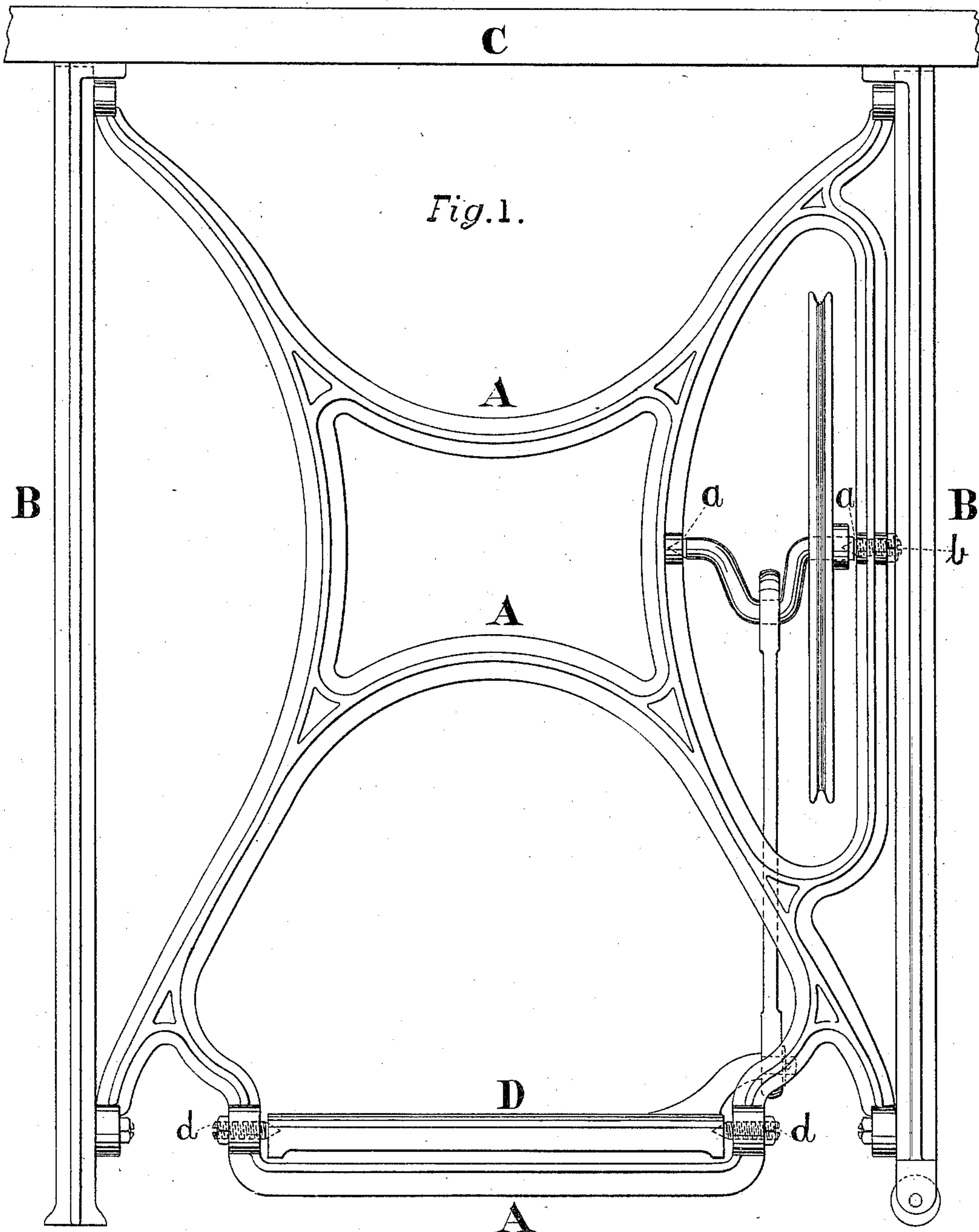
2 Sheets—Sheet 1.

P. DIEHL.

SEWING MACHINE STAND AND TREADLE.

No. 306,469.

Patented Oct. 14, 1884.



WITNESSES:

Charles E. Kim
Angell Noonan

INVENTOR

Philip Diehl
BY *Sydney A. Bennett*
his ATTORNEY

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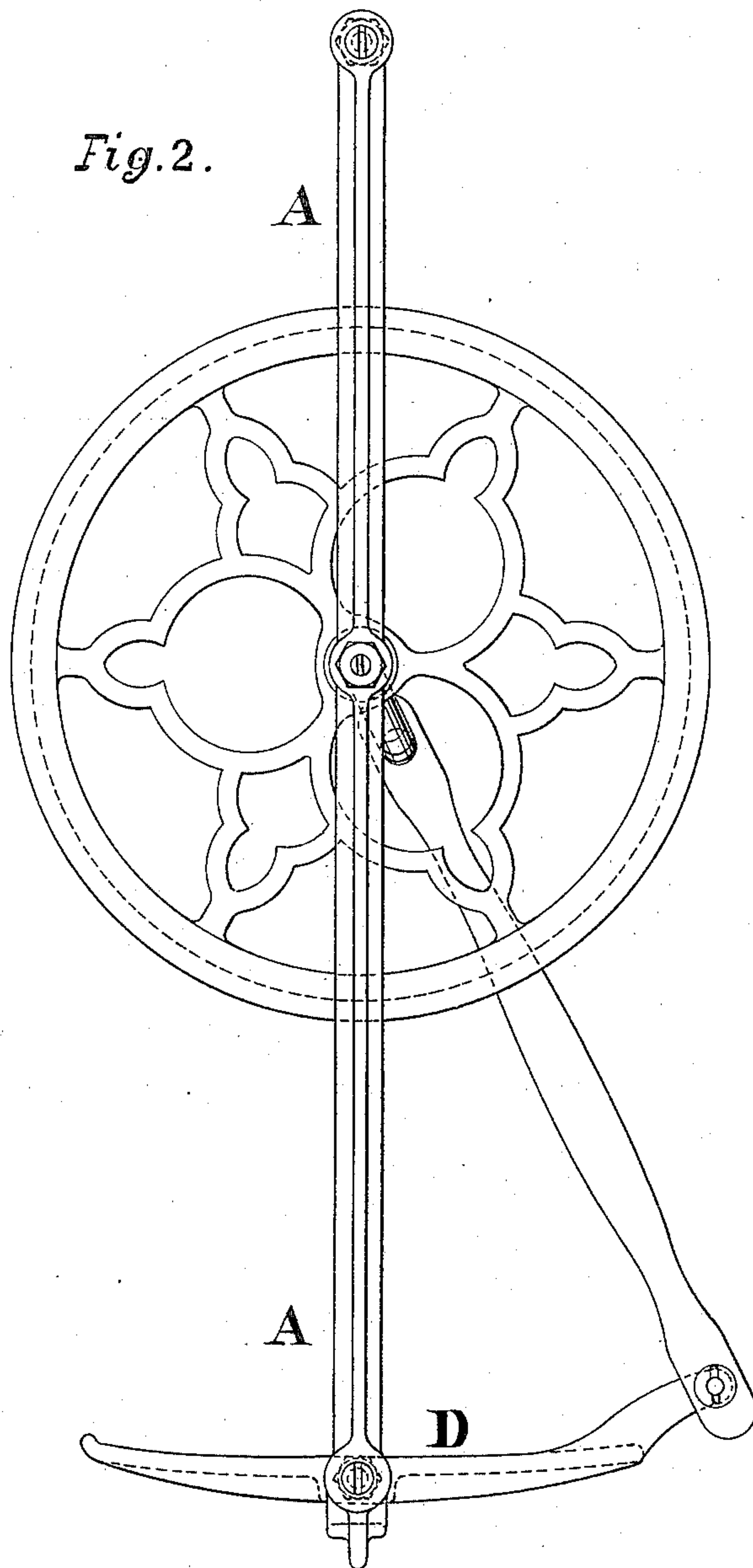
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UNITED STATES PATENT OFFICE.

PHILIP DIEHL, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO THE SINGER
MANUFACTURING COMPANY, OF NEW JERSEY.

SEWING-MACHINE STAND AND TREADLE.

SPECIFICATION forming part of Letters Patent No. 306,469, dated October 14, 1884.

Application filed May 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, PHILIP DIEHL, of the city of Elizabeth, in the county of Union and State of New Jersey, have made an invention of certain new and useful Improvements in Sewing-Machine Stands and Treadles; and I do hereby declare that the following is a full, clear, and exact description and specification of the same.

My invention relates to an improved construction of such sewing-machine stand; and its object is to secure a permanent and reliable support and adjustment for both the band-wheel and treadle and to preserve their respective relative positions, so that they will always co-operate to produce the best results with the least danger of friction or binding.

In the drawings, Figure 1 is a face view of such a stand, and Fig. 2 an edge view of the brace within which I support both the band-wheel crank and treadle.

C is the ordinary table-top of a sewing-machine; B, the upright legs or stand sides, and A the usual brace connecting the same and serving to stiffen and secure the frame, as well as to perform the specific and additional functions hereinafter explained. This brace is formed, substantially as shown, with a loop within which the band-wheel can act, and on the sides of which are provided conical bearings for the shaft which supports the band-wheel, and which is preferably bent so as to form a crank. To this crank is attached an ordinary pitman, which at its lower end is pivotally connected to an ordinary rocking treadle. This treadle is supported in the lower portion of said brace, which I prefer to make as shown, forming practically another loop, the lower end of which is the cross-bar on which the treadle is hung. This cross-bar may, however, be omitted and the treadle hung directly on downward projections from the brace.

My invention is shown as applied to a stand adapted for use in supporting and driving a Singer I. F. sewing-machine; but I do not confine myself to any particular form of stand, the essential part of my invention being the providing of supports for both the band-wheel and the treadle, which are integral with the brace, so that when said band-wheel, with its driving-crank and said treadle, have been

hung within said brace and connected by a suitable pitman their adjustment to and relationship with each other are practically permanently secured.

Means are provided for taking up ordinary wear in the band-wheel shaft by the cone-bearings *a a* and the screw *b*, and in the treadle by the conical pointed screws *d* acting in suitable bearing-recesses. By this arrangement any twisting or other alteration in the fitting or connections between the brace and the legs or between any of the several parts of the sewing-machine stand will neither affect the hanging, adjustment, or relationship of the said band-wheel and treadle, and, in fact, the lower driving apparatus of the sewing-machine is by my invention absolutely secured against any accident short of the breakage or forcible distortion of the brace itself. This brace, being built strongly, and preferably with a rib, as shown, is not at all likely to be injured in ordinary use or by ordinary handling.

I claim as my invention—

1. In a sewing-machine stand, a cross-brace having supports for both the band-wheel and the treadle integral with said brace.

2. In a sewing-machine stand, a cross-brace having supports for both the band-wheel and the treadle integral with said brace, and provided also with means for adjusting and taking up the wear of such band-wheel and treadle.

3. In a sewing-machine stand, a cross-brace adapted to connect the legs or side pieces thereof, provided at one side with bearings for the fly-wheel crank-shaft, and having a support at its base for the treadle, substantially as set forth.

4. The combination, with the cross-brace of a sewing-machine stand, of a crank-shaft and a treadle, both mounted in the said brace, substantially as set forth.

5. A cross-brace for sewing-machine stands, having at its base a cross-bar, combined with a treadle mounted in said cross-bar, substantially as set forth.

PHILIP DIEHL.

Witnesses:

A. D. HARTWELL,
A. D. PENTZ.