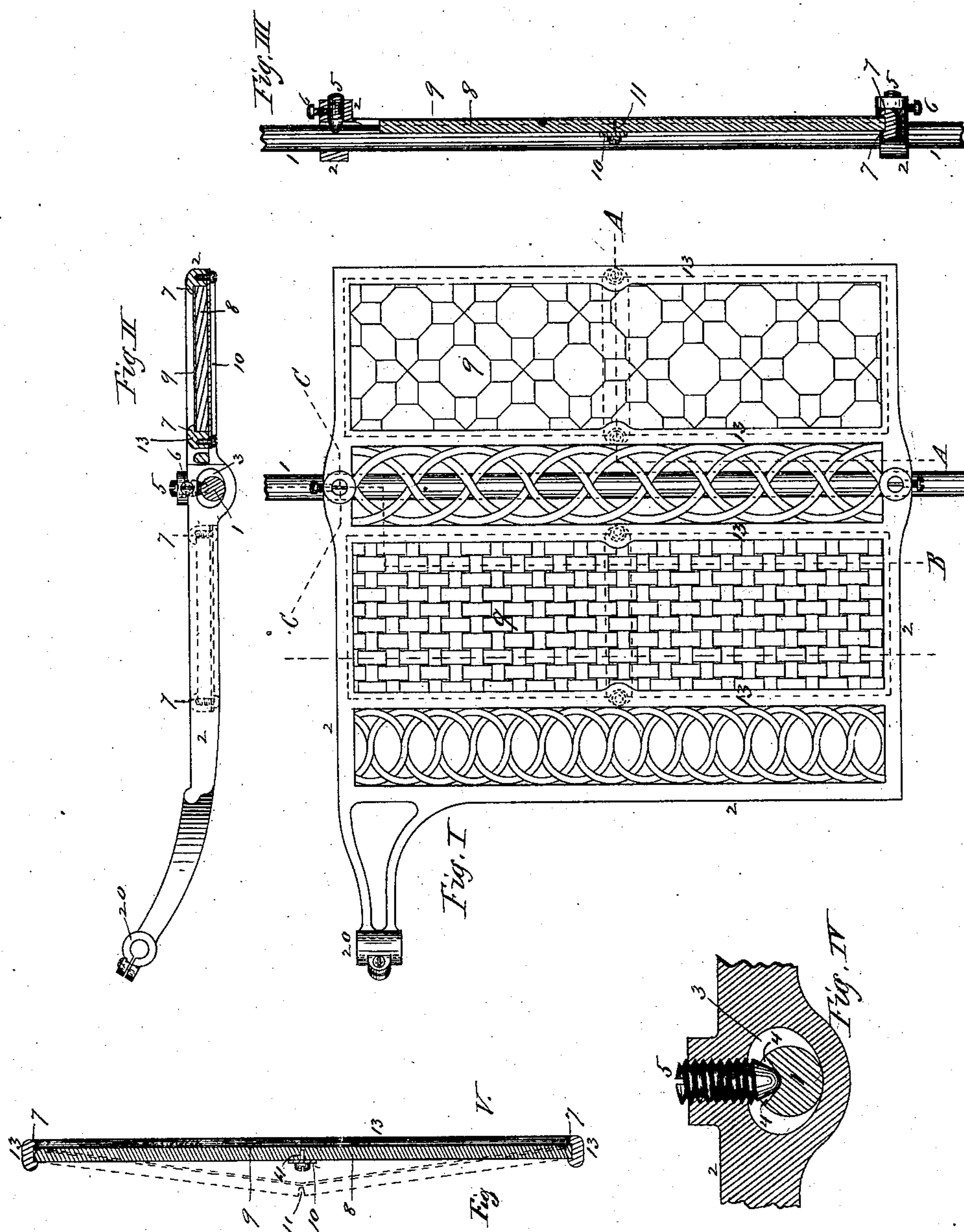


(No Model.)

J. H. OSBORN.
SEWING MACHINE TREADLE.

No. 281,392.

Patented July 17, 1883.



Witnesses.
Chas H. Wood.
N. E. Durrnell.

Inventor.
John H. Osborn.
By T. A. Curtis.
his atty.

UNITED STATES PATENT OFFICE.

JOHN H. OSBORN, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO THE
LEADER SEWING MACHINE COMPANY, OF CLEVELAND, OHIO.

SEWING-MACHINE TREADLE.

SPECIFICATION forming part of Letters Patent No. 281,397, dated July 17, 1883.

Application filed August 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. OSBORN, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Sewing-Machine Treadles, of which the following is a specification and description.

The object of my invention is to provide the pedal of a sewing-machine treadle with a neat and compact carpet padding on its upper surface, and also to secure the pedal to its supporting-rod, so that it will tilt thereon with as little friction as possible, to obtain an easy movement of the treadle mechanism; and I accomplish this by the construction substantially as hereinafter described, and illustrated in the accompanying drawings, in which—

Figure I is a plan view of the pedal portion of a sewing-machine treadle made and secured to its supporting-rod according to my invention. Fig. II is a vertical section of the same at line A, showing the wooden foot-rest covered with its carpet and secured in place in the pedal. Fig. III is a vertical section at line B of Fig. I. Fig. IV is a transverse section of the rod which supports the pedal, and also through a portion of the latter, showing the manner of securing the pedal to the rod, so as to tilt thereon; and Fig. V is a transverse section of the pedal, showing the method of securing the padded foot-rest in position within the pedal-frame.

In the drawings, 1 represents the rod, which ordinarily extends from one end of the frame of a sewing-machine to the other end, at the bottom, upon which the pedal of the treadle is pivoted; and in this case this rod 1 extends through a hole, 3, in each end of the frame 2 of the pedal, this frame being of general rectangular form, and provided with cross-bars, as 13, extending from one end of the frame to the other. The ends of the frame between the cross-bars 13 are channeled on the inside, with an inwardly-projecting lip or shoulder, 7, above and below the channel, as shown in Fig. V, and a projecting lip or shoulder, 7, is made on the inside of the cross-bars 13, corresponding to and upon the same horizontal plane as the lip or shoulder 7 on the frame between said cross-bars, as shown in Fig. II. A

board, 8, is cut of just the size to fit into this channeled part of the pedal and against the lower side of the lip or shoulder 7; and a pad or web, of carpet, felt, or other suitable soft material, preferably the former, having some pleasing woven figure or ornamentation, is cut of the same size as the board, or a little longer, if desired; and the edges of the pad may be slightly fastened to the edges of the board, and the latter has a kerf sawed partially through it midway its length, as at 11. The board is bent at the saw-kerf 11 into the form shown in dotted lines in Fig. V, so that each of its ends may be placed into the said channel in the frame 2, below the upper lip or shoulder, 7, with the pad or web laid upon the board; and when its ends are so placed the board is again straightened, as shown in black lines in Fig. V, which forces it up firmly into position against the lip 7 above the channel in the frame, with the pad or carpet firmly clamped between the upper side of the board, all around its edge, and the lip or shoulder; and the board and pad are held in this position by a bar, 10, placed across the lower side of the board, about midway its length, with a screw turned through each end into a threaded hole made in the lower side of the frame, as shown in Figs. II, III, and V. The pedal is secured in position to tilt on the rod 1 by making a tapered cavity, as 4, in the upper side of the rod, as shown clearly in Fig. IV, the rod extending through an elongated hole, 3, made in each end of the frame 2; and a screw, 5, having a tapered or rounded end, of less diameter than the tapered cavity 4 in the rod, is turned down through the pedal-frame from above, with its end bearing in the bottom of the cavity 4 in the rod, so that the whole weight of the pedal is borne by the tapered ends of the two screws 5, bearing in the two tapered cavities 4 in the rod, the two screws being free to tilt to and fro as the pedal is moved by the operator to work the treadle.

It will be seen that while the tapered ends of the screws 5 are free to rock or tilt to and fro in the tapered cavities 4 in the rod 1, the lower part of the frame, directly beneath the holes through which the rod 1 extends, is in such close proximity to the rod that the ta-

pered screws are prevented from being accidentally removed from their cavities; and if the points of the screws become worn, the wear may be compensated for by turning the screws in slightly to take up any lost motion, so that the pedal may hang firm upon the rod 1 without jarring or lost motion.

By this construction all the friction in the movement of the pedal upon its rod is reduced to a minimum, the pedal simply being rocked to and fro upon the point of the screw 5 in its cavity 4.

By this construction I am enabled to provide a sewing-machine with a treadle mechanism which has an easy movement—the treadle-rod being attached to the pedal at the point 20—and the surface of whose pedal is padded, so that in cold weather the feet will not be affected by the extreme coldness of the iron; and should the padding or web become worn, any person may readily detach the foot-boards from the pedal and attach a new pad or web and replace the boards in the pedal.

Having thus described my invention, what I claim as new is—

1. A pedal-frame for treadles, having a channel made on the inner part of two of its sides, with a projecting lip or shoulder forming the upper side of said channel, and extending around the inside of the other two sides on the same horizontal plane, in combination with a removable foot-board adapted to be inserted into said frame, and secured from below, and a pad or web held at its edges between said board and said lip or shoulder, substantially as described.

2. The combination, with a pedal-frame having an elongated hole in each end, of a pedal-supporting rod extending horizontally through said hole and provided with tapered cavities in its upper side, and screw-pivots turned into said frame, with their tapered ends projecting into said elongated hole, and having their bearings in said cavities, to tilt to and fro therein, substantially as described.

JOHN H. OSBORN.

Witnesses:

T. A. CURTIS,
CHAS. H. WOOD.