E. J. TURNER, decd.

J. T. GRAHAM, Administrator.

SEWING-MACHINE TREADLE.

No. 172,835. Patented Feb. 1, 1876.

Fig. 1.

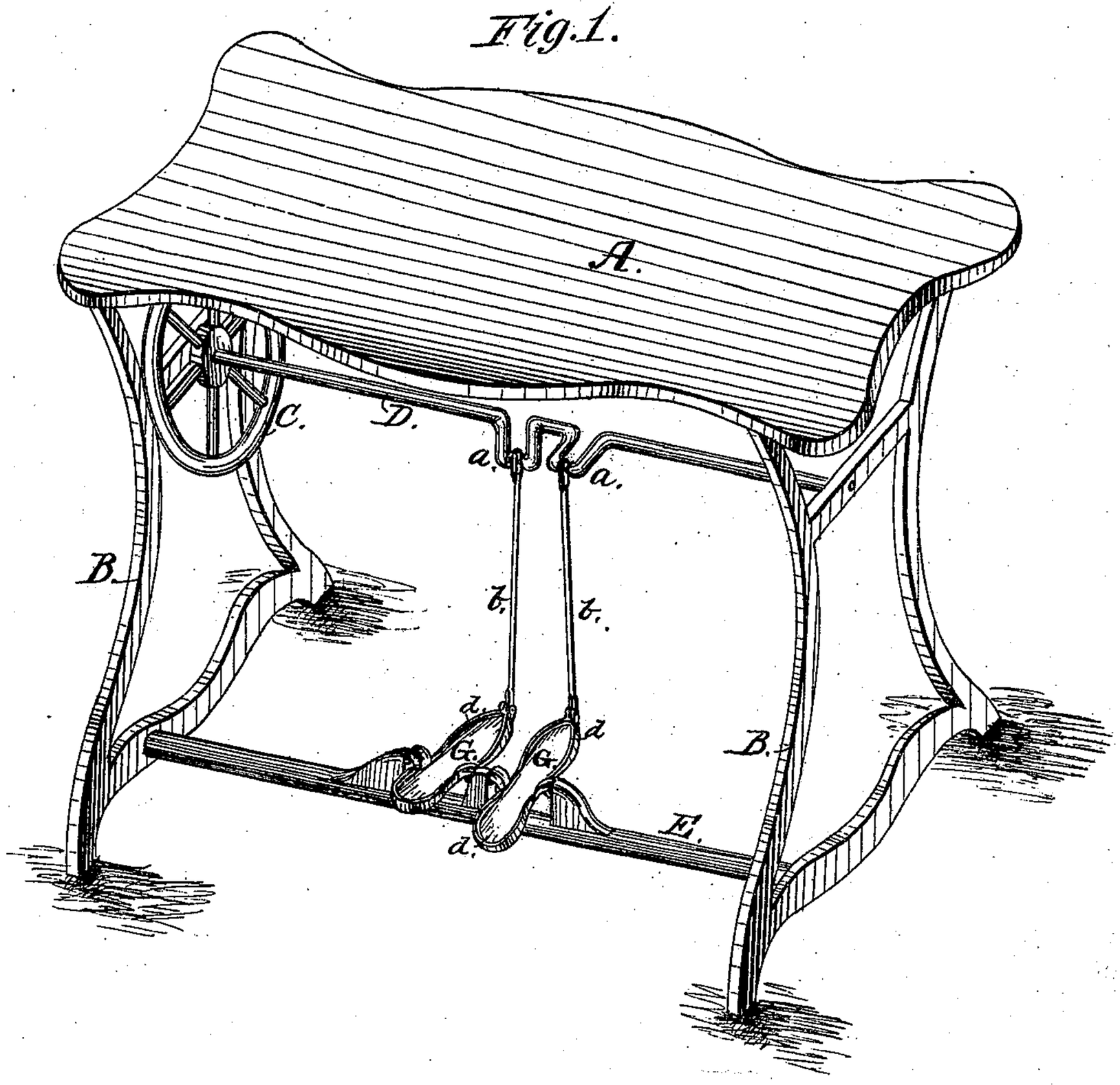


Fig. 2.

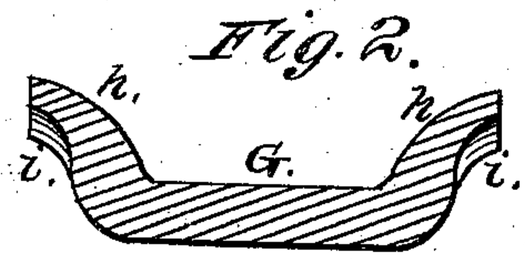


Fig. 3.

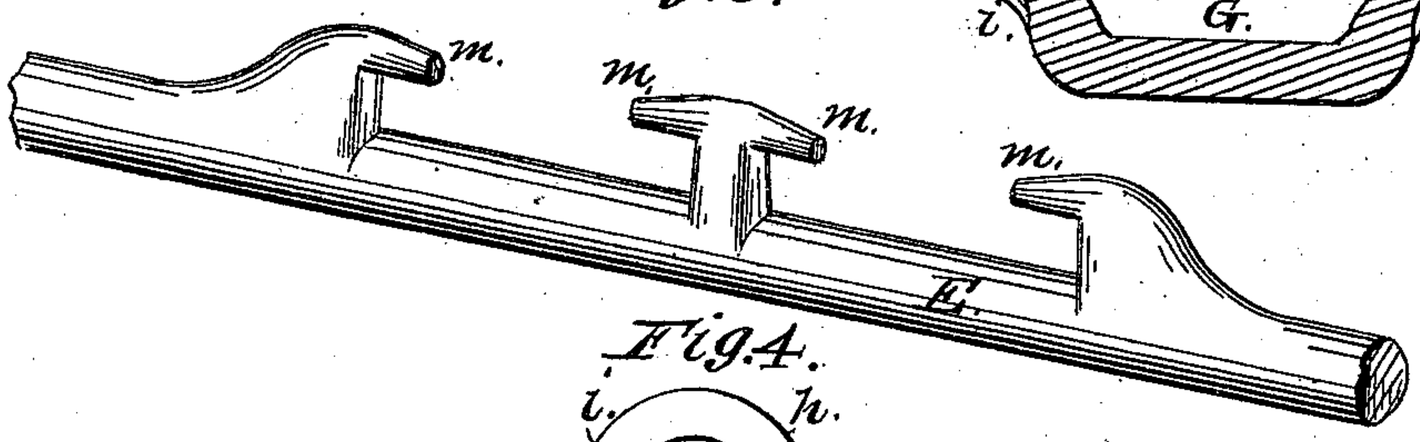
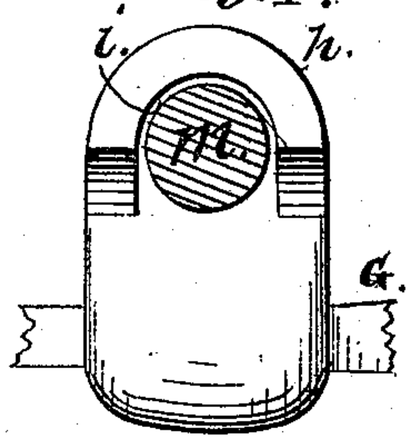


Fig. 4.



Witnesses:
Jos. T. K. Plant
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UNITED STATES PATENT OFFICE.

JOHN T. GRAHAM, OF BALTIMORE, MARYLAND, ADMINISTRATOR OF EDWARD J. TURNER, DECEASED.

IMPROVEMENT IN SEWING-MACHINE TREADLES.

Specification forming part of Letters Patent No. **172,835**, dated February 1, 1876; application filed October 25, 1875.

To all whom it may concern:

Be it known that EDWARD J. TURNER, of Baltimore, in the county of Baltimore and State of Maryland, invented certain new and useful Improvements in Treadles for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of this invention consists in the construction of a treadle for sewing-machines and other foot-power machinery, and in the means for hanging the same; and, also, in the combination of parts, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which this invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a perspective view of a sewing-machine stand embodying this invention. Fig. 2 is a cross-section of the treadle. Fig. 3 is a perspective view of the bar on which the treadles are hung. Fig. 4 is a cross-section through one of the pivots.

A represents the top or table, and B B the side pieces, of a sewing-machine stand.

C is the band-wheel, mounted upon a shaft, D, having its bearings in the side pieces B B. This shaft is formed or provided with two cranks, *a a*, standing at right angles with each other, as shown, and connected by rods or pitmen *b b* with the toe ends of the two treadles G G.

These treadles are constructed in the usual form, and are provided around their edges with upward-projecting flanges *d d*, as shown.

On each side of each treadle is an upwardly and outwardly curved projection, *h*, which fits in the hollow in the side of the foot, forming, as it were, a rest and wedge for the foot, so as to keep the same in place on the treadle, and prevent the foot from slipping backward or forward on the same.

The under sides of the projections *h* are hollowed out or recessed, as shown at *i*, and these recesses fit over tapering horizontal pivots *m m*, formed on the upper side of a bar or rod, E, which connects the lower portions of the side pieces B B.

The treadle is thus suspended below its pivots, and the pivots being made tapering, the bearing is virtually at one point only on each side, or, in other words, the same as if hung on a knife-edge, thus reducing the friction to the smallest possible amount, and rendering the running of the machine very easy.

Though I have shown this invention as applied to two treadles and two cranks, it may equally as well be applied to a single treadle and a single crank or wrist pin. I prefer, however, to use it with two cranks set at right angles with each other, as thereby the dead-centers are overcome.

Having thus fully described this invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A treadle, G, provided with the curved side rests or braces *h h*, substantially as and for the purposes herein set forth.

2. The combination of a treadle, G, having curved side rests or braces *h h*, with recesses *i* on their under sides, and the horizontal tapering pivots *m m*, substantially as and for the purposes herein set forth.

3. The combination of the shaft D, having cranks *a a*, the pitmen *b b*, flanged treadles G G, provided with the side rests *h h*, and the tapering pivots *m m*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

JNO. T. GRAHAM,
Administrator of Edward J. Turner, deceased.

Witnesses:
JOS. T. K. PLANT,
WILLIS B. MAGRUDER.