

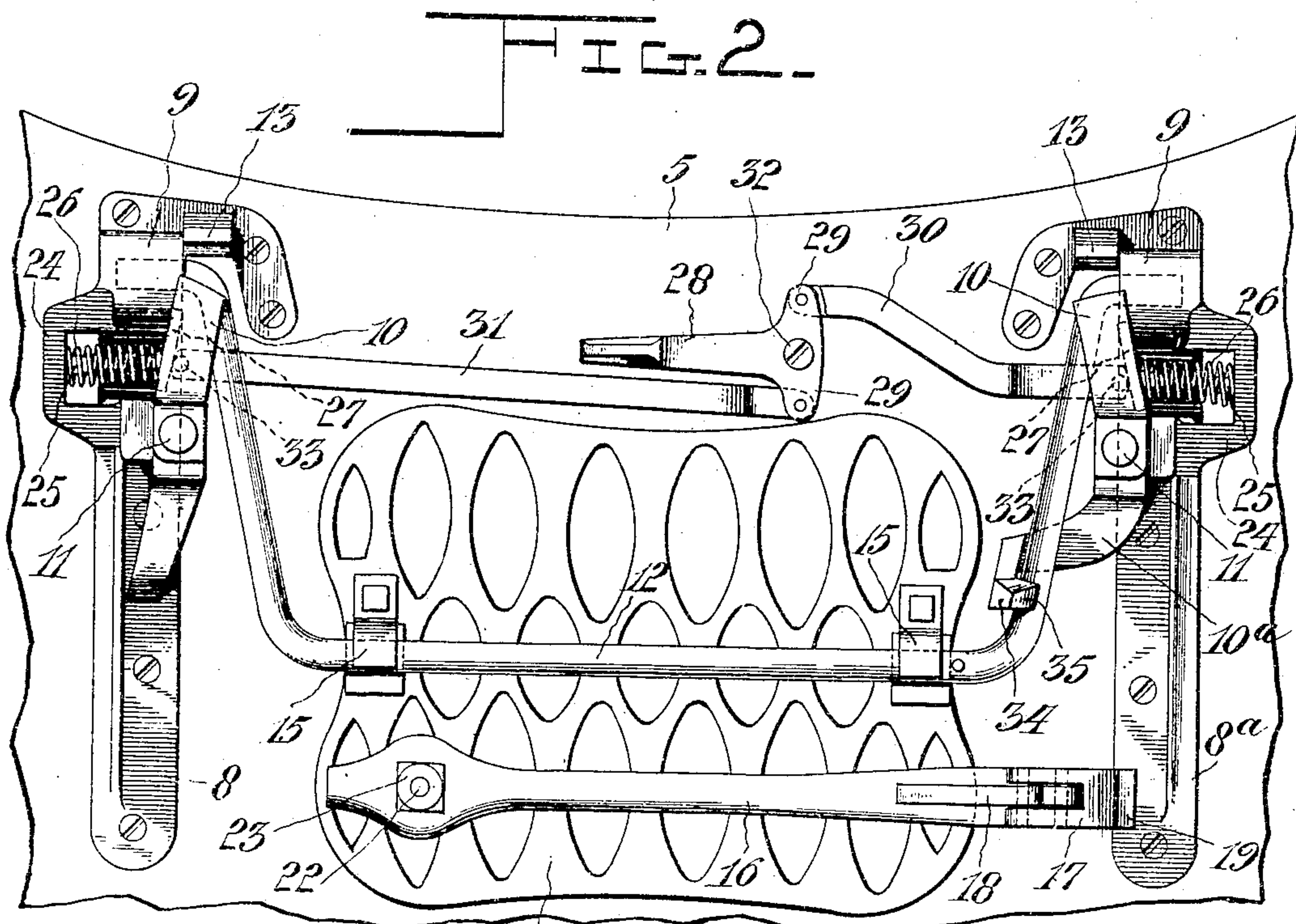
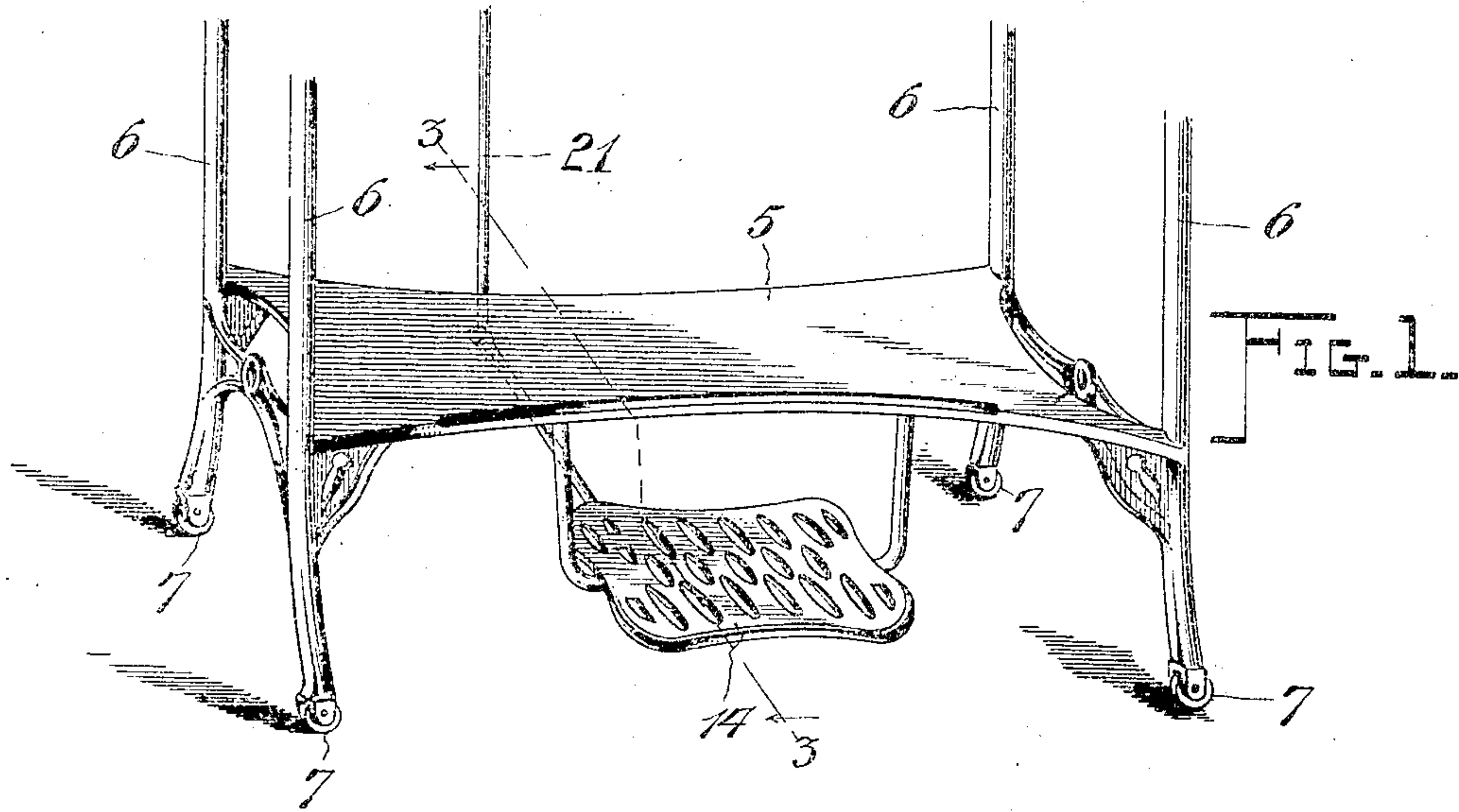
No. 778,721.

PATENTED DEC. 27, 1904.

A. TÉTRAULT.
TREADLE.

APPLICATION FILED JUNE 21, 1904.

2 SHEETS—SHEET 1.



Witnesses:

John F. Seufferheld
J. H. Gibbs

Amédée Tétrault,

Inventor,

By

Marion Marion

Attorneys

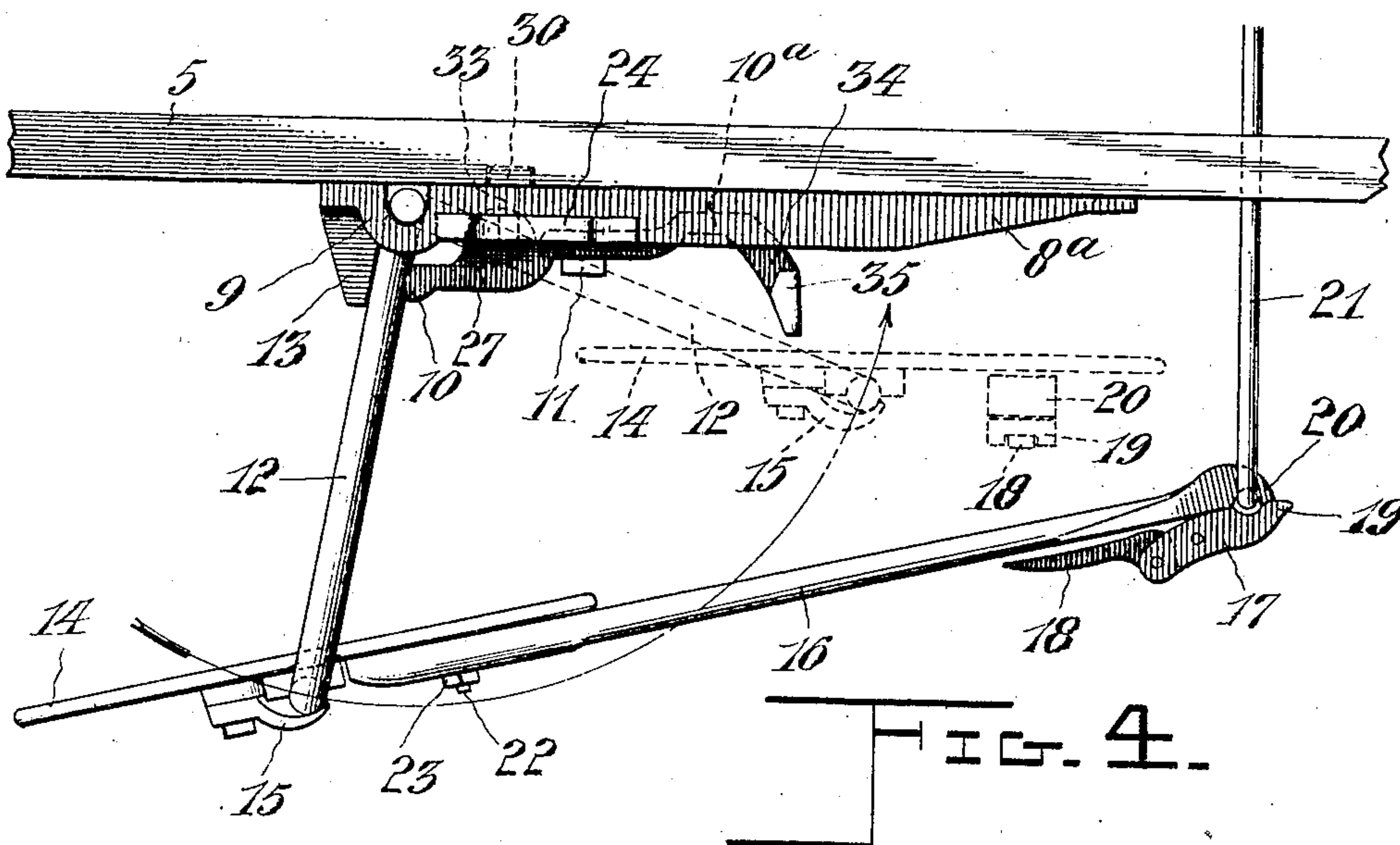
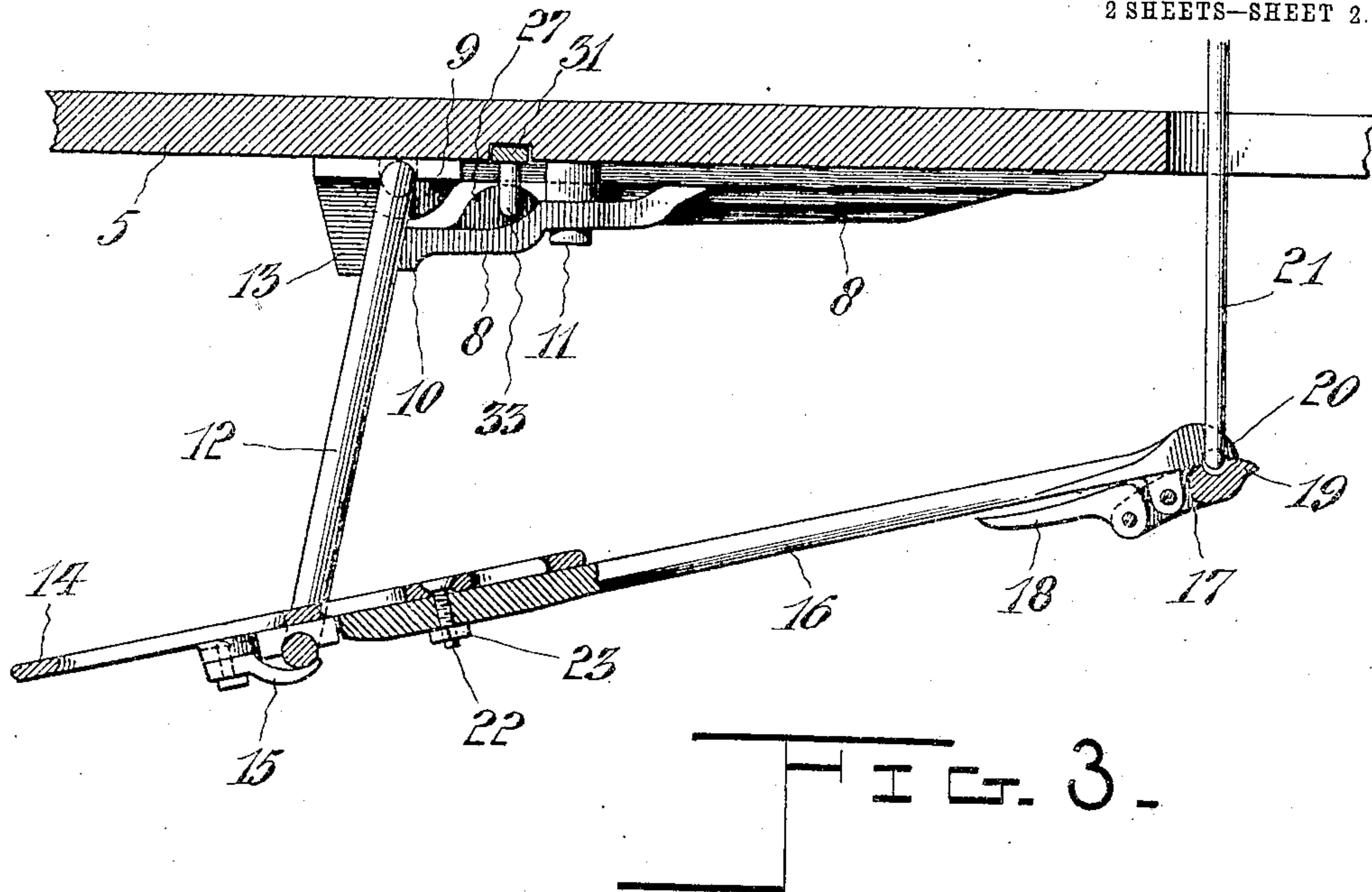
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By *Marion Marion*

Attorneys

UNITED STATES PATENT OFFICE.

AMÉDÉE TÉTRAULT, OF COATICOOK, CANADA, ASSIGNOR TO COMPAGNIE
DES MOULINS À COUDRE DE COATICOOK.

TREADLE.

SPECIFICATION forming part of Letters Patent No. 778,721, dated December 27, 1904.

Application filed June 21, 1904. Serial No. 213,569.

To all whom it may concern:

Be it known that I, AMÉDÉE TÉTRAULT, a subject of the King of Great Britain, residing at Coaticook, county of Stanstead, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Treadles; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in treadles adapted especially to be applied to a supporting-shelf which is carried above a floor, the treadle comprising foldable members which may be elevated to position to contact with the supporting-shelf so as to be entirely hidden from view when in folded position.

The object of the invention is to produce a device of the character described which will be simple in construction and comprise a minimum number of coöperating parts adapted to support a treadle in position beneath a supporting-shelf and provide locking means for locking the same in an operative position and in a position of rest when concealed by such table, all as hereinafter more fully described, and specifically pointed out in the claims.

In the annexed drawings, in which similar numerals of reference indicate corresponding parts in all the views, Figure 1 is a perspective view of the lower portion of the table or stand provided with my invention, with the treadle shown in operative position. Fig. 2 is an inverted plan view of the supporting-shelf with the treadle mechanism folded in closed position thereunder. Fig. 3 is a longitudinal vertical sectional view of the device on line 3 of Fig. 1, and Fig. 4 is a side elevational view showing the treadle in full lines in a lowered position and in dotted lines in a position midway between its operative position and the position of rest.

Referring to the parts, 5 is a "supporting-shelf," so-called, which is supported upon the legs 6, which may be provided with casters 7 or not, as may be desired. Secured to the under side of the shelf 5 are bearing-plates

8 8^a, each of which is provided with a pintle-bearing 9. Pivotaly connected with the plates 8 8^a are stops 10, connected by the pintles 11 with such bearing-plates, while a treadle-bracket 12 is supported in the bearings 9 and is adapted to bear against the fixed stops or abutments 13, which are preferably formed integral with such bearings-plates when the treadle is in the position indicated in Figs. 1, 3, and 4 in full lines, at which time the stops 10 will occupy the positions shown in Figs. 3 and 4—that is, bearing against the treadle-bracket 12 and securing such treadle-bracket between the fixed abutments or stops 13 and the movable stops 10, so as to lock the treadle-bracket in its lowered position. Rockably mounted upon the cross-arm of the treadle-bracket is a treadle 14, which is connected thereto by the clip 15. (Best shown in Figs. 3 and 4.) Pivotaly connected with the treadle 14 is a pitman-arm 16, which is provided with a clip 17, rockably supported at its outer end, with which clip coöperates the cam 18, adapted to bring the jaws 19 and 20 together to connect therewith the pitman-rod 21, which may be run to a fly-wheel of a sewing-machine or driving-wheel of any device which it is intended to operate by means of the treadle mechanism herewith disclosed. The pitman-arm is pivotaly supported upon the treadle 14 by means of the bolt 22, which is projected vertically through the said arm 16 and treadle 14, a nut 23 being secured thereon for the purpose of holding such parts together. Formed preferably integral with the bearing-plates are spring-seats 24, each of which is provided with a spring-stud 25, engaging the expansion-springs 26, which bear at their opposite ends against the flanges 27, provided on the stops 10, so as to normally hold the stops in the position indicated in Figs. 2, 3, and 4—that is, in such position as to lock the treadle-bracket between the fixed abutment and such stops. Supported intermediate the stops is a crank-arm 28, provided with lateral extensions 29. To one of the lateral extensions 29 is pivotaly connected the short arm 30, which runs to the stop supported upon the plate 8^a, and to the other extension 29 is connected the rod 31, which

runs to the opposite stop 10, so that when the crank-arm 28 is rotated upon the supporting-screw 32, which connects it with the shelf 5, the arms 30 and 31 will be projected longitudinally to cause the pins 33 on such arms to impinge the flanges 27 of the stops 10, and thereby project such stops away from their engagement with the treadle-bracket, after which the treadle-bracket may be swung upwardly, as indicated by the arrow and dotted lines in Fig. 4, when the pitman-rod 21 is disconnected, as it may be by means of the cam 18 referred to.

By reference to Figs. 2 and 4 it will be noted that the stop 10 upon the bearing-plate 8^a is provided with an extension 10^a, which carries a locking-hook 34, which is adapted to engage with the treadle-bracket 12 when such treadle-bracket is swung to a position of rest against the lower face of the shelf 5, as indicated in Fig. 2. The member 34 is provided with the beveled face 35, which is impinged by the treadle-bracket 12 in its upward travel, thereby rocking such hook away from the treadle-bracket against the force of the spring before referred to, and as soon as the treadle-bracket has passed to a position above the bevel-face the spring will project the hook to the position shown in Fig. 2, wherein the hook engages with the treadle-bracket, thus supporting the treadle-bracket and treadle in position immediately under the supporting-shelf, where it is hidden from view. For the purpose of hiding the pitman-arm 16 it is pivoted, as hereinbefore described, to the treadle, and when the treadle is thrown to its uppermost position—that is, when it is locked against the under side of the supporting-shelf—the pitman-arm may be swung to the position indicated in Fig. 2, in which position it will be hidden from view by such platform.

While I have shown in the accompanying drawings the preferred form of my invention, it will be understood that I do not limit myself to the precise form shown, for many of the details may be changed in form or position without affecting the operativeness or utility of my invention, and I therefore reserve the right to make all such modifications as are included within the scope of the following claims or of mechanical equivalents to the structures set forth.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a foldable treadle, a supporting-shelf, a plurality of rigid bearing-plates thereon, bearings in said plates, fixed abutments integral therewith, pivoted stops supported on

said plates, longitudinally-slidable rods adapted to impinge said pivoted stops, a treadle-supporting bracket rockably supported in said bearings, and means for locking said treadle-bracket in folded position.

2. In a foldable treadle, a supporting-shelf, a plurality of rigid bearing-plates, bearings in said plates, a treadle-bracket rockably mounted in said bearings, a treadle on said bracket, a pitman-arm pivotally mounted on said treadle, spring-actuated stops adapted to lock said treadle-bracket in open position, a spring adapted to cooperate therewith, and a catch on one of said stops adapted to engage with said treadle-bracket when in a folded position.

3. In a foldable treadle, a supporting-shelf, a plurality of bearing-plates, a treadle-bracket mounted therein, a treadle mounted on said bracket, a fixed abutment on one of said plates, a rockable stop on said plate, said arm being adapted to contact with said treadle-bracket at one end and provided at its opposite end with a hook adapted to interlock with said treadle-bracket, in combination with an actuating-spring, and means for rocking said catch-arm.

4. In a foldable treadle, a supporting-shelf, a plurality of bearing-plates, a treadle-bracket mounted therein, a treadle mounted on said bracket, a pivoted pitman-arm on said treadle, a fixed abutment on one of said plates, a rockable stop on said plate, said arm being adapted to contact with said treadle-bracket at one end and provided at its opposite end with a hook adapted to interlock with said treadle-bracket, in combination with an actuating-spring, and means for rocking said catch-arm.

5. In a foldable treadle, a supporting-shelf, a plurality of bearing-plates, a treadle-bracket mounted therein, a treadle rockably mounted on said bracket, a plurality of pivoted stops on said plates, springs bearing against said stops, longitudinally-movable arms bearing against the opposite sides of said stops, a crank-arm connected with said arms, and a hook on one of said stops.

6. In a foldable treadle, a supporting-shelf, a plurality of rigid bearings thereon, fixed abutments in juxtaposition thereto, spring-actuated stops cooperating therewith, springs cooperating with said stops and a treadle-bracket pivotally supported in said bearings.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

AMÉDÉE TÉTRAULT.

Witnesses:

PHILIAS A. DIANNE,
WILFRID LEMIEUX.