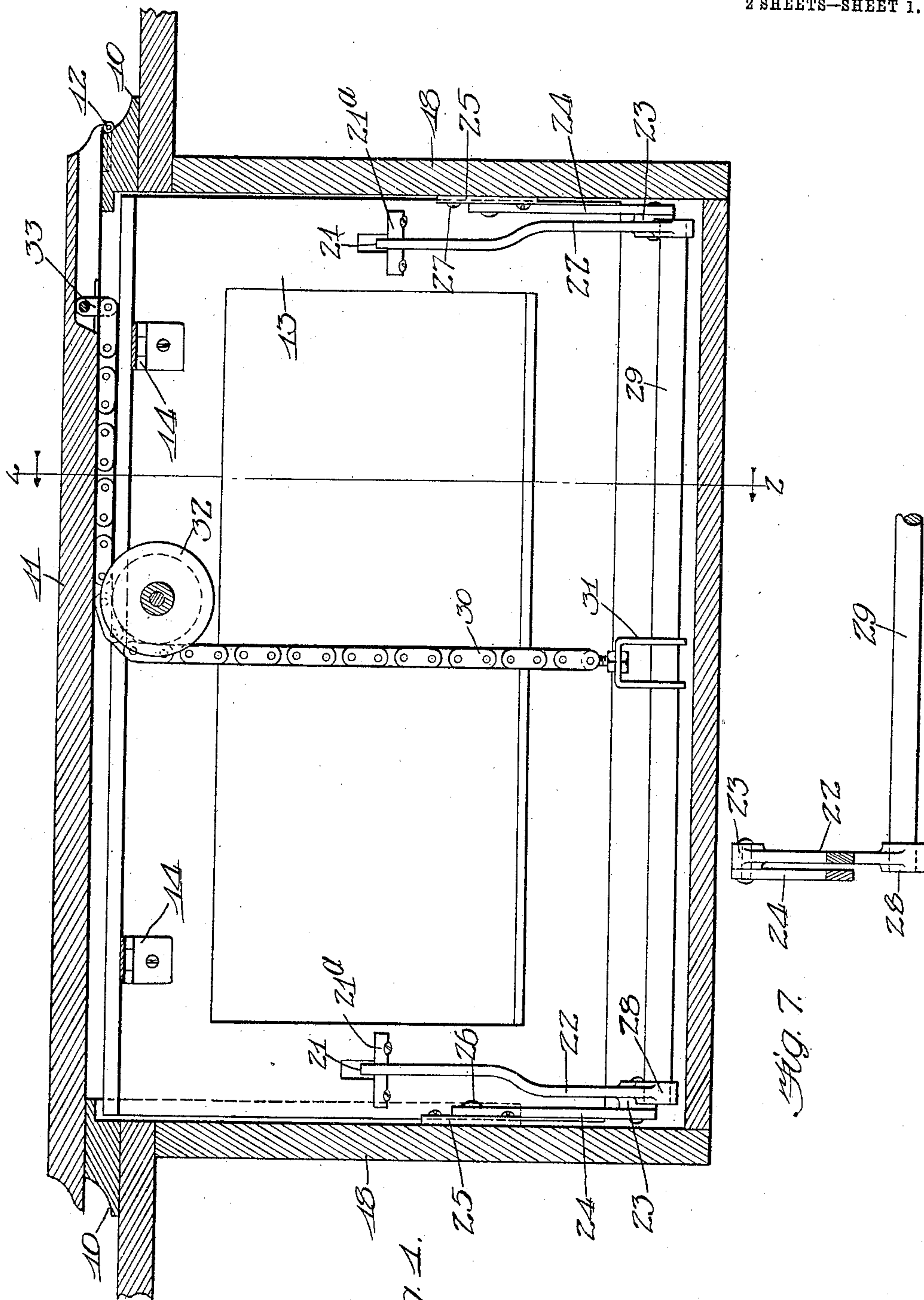


R. R. BROWN.
SEWING MACHINE CABINET.
APPLICATION FILED FEB. 18, 1907.

946,893.

Patented Jan. 18, 1910.
2 SHEETS—SHEET 1.



Witnesses:
Robert H. Mein
J. Jochum Jr.

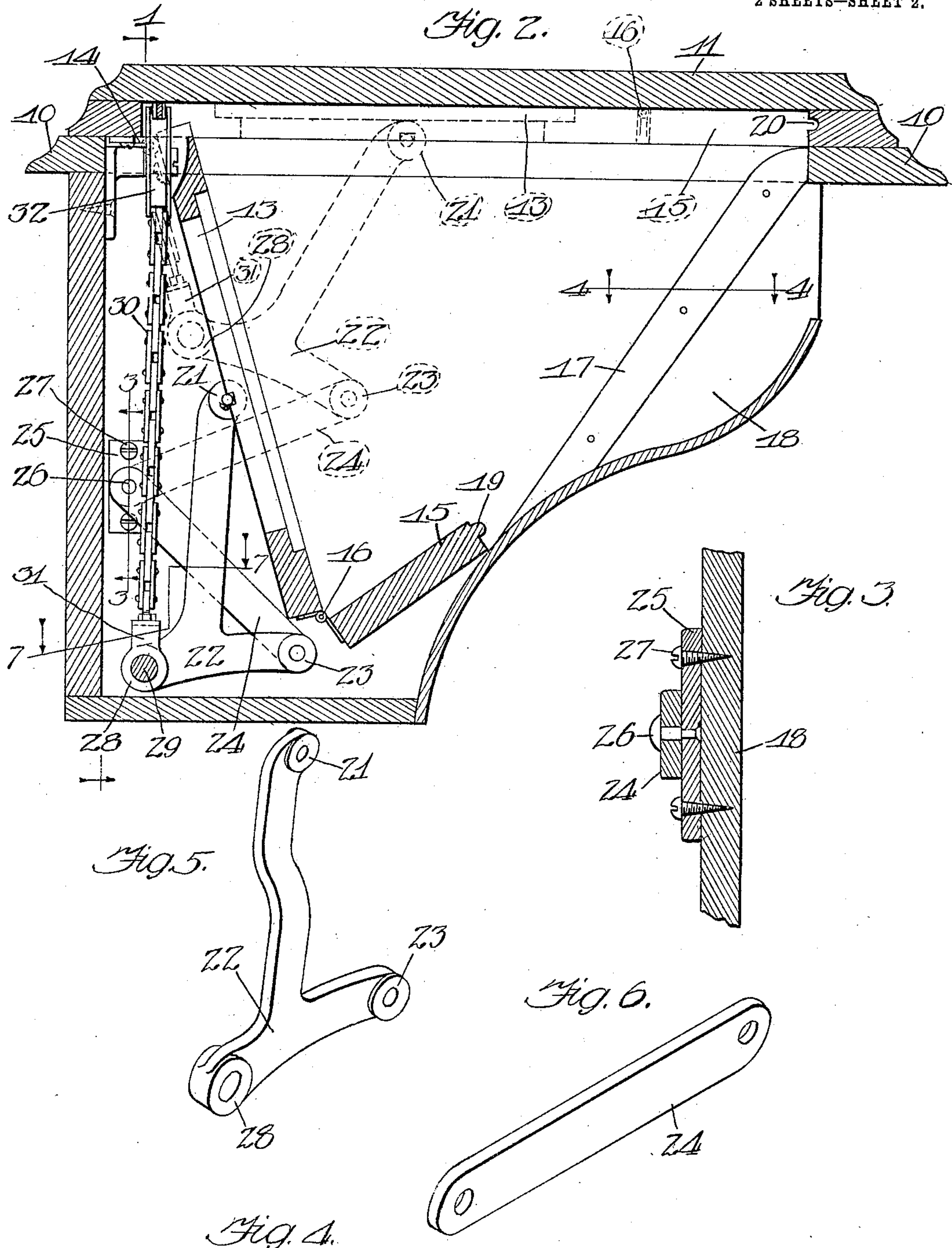
Fig. 1.

Inventor:
R. R. Brown
by Brown & Hoffm.
Attys

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Witnesses:
Robert H. Allen
J. J. Schumacher, Jr.

Inventor
R. R. Brown
by Brown & Hoffmann
Attys

UNITED STATES PATENT OFFICE.

RICHARD R. BROWN, OF BELVIDERE, ILLINOIS, ASSIGNOR TO NATIONAL SEWING MACHINE COMPANY, OF BELVIDERE, ILLINOIS, A CORPORATION OF ILLINOIS.

SEWING-MACHINE CABINET.

946,893.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed February 18, 1907. Serial No. 357,859.

To all whom it may concern:

Be it known that I, RICHARD R. BROWN, a citizen of the United States, residing at Belvidere, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Sewing-Machine Cabinets, of which the following is a specification.

This invention relates to that class of sewing machine cabinets provided with drop leaves or platforms for supporting the sewing machine head when in use and lowering the head out of the way when not in use and the invention has for its primary object to provide improved means whereby the supporting platform for the head may be raised and lowered by the opening and closing movements of the cover.

A further object is to provide an improved, simple and inexpensive construction of sewing machine cabinet of this character, in which the platform when elevated shall be substantially as rigid as the solid portion of the table.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawings, and in which—

Figure 1 is a vertical, longitudinal sectional view on line 1—1 of Fig. 2, of a sewing machine cabinet constructed in accordance with the principles of this invention showing the platform lowered. Fig. 2 is a sectional view on line 2—2 of Fig. 1. Fig. 3 is a detail, sectional view on line 3—3 of Fig. 2. Fig. 4 is a detail sectional view on line 4—4 of Fig. 2. Fig. 5 is a detail perspective view of one of the platform supporting arms. Fig. 6 is a perspective view of one of the links. Fig. 7 is an irregular detail sectional view on line 7—7 of Fig. 2.

Referring more particularly to the drawings, in which the same reference numerals designate the same parts throughout the several views, and in this exemplification of the invention the numeral 10 designates the fixed or rigid part of the table or cabinet top, and 11 is the lid, which is hinged as at 12 to the top 10 in the usual or in any desired manner and is adapted to be folded over upon the top 10 and close the opening

therein when the platform 13, which is hinged as at 14, is lowered as shown more clearly in Fig. 2. The platform 13, as will be understood, is provided for supporting the sewing machine head, (which latter is not shown) during the operation of the sewing machine or to lower the head out of the way when the sewing machine is not in use and when the lid or cover 11 is closed. Owing to the extent to which the sewing machine head or arm projects above the platform 13, the opening in the table top is considerably wider than the width of the platform 13 in order to permit the head or arm to pass downwardly into the cabinet when the platform is lowered. In order to close the opening beyond the platform 13, an extension 15 is hinged as at 16 to the forward end of the platform 13. The free extremities of this extension or section 15 are adapted to rest and move upon suitable guides or ways 17, one of which is secured to each side 18 of the cabinet and adjacent the forward end thereof. The extension or member 15 is provided with a forwardly projecting rib or lug 19 extending across its free end and said rib or projection is adapted to be seated within a suitable groove or recess 20 in the face of the rigid portion 10 of the top. As the platform 13 is raised or lowered, the extremities of the free end of the extension or member 15 move upon the guides or ways 17 to direct the rib or projection 19 into the recess or groove 20.

Secured to each end of the platform 13 is one end 21 of a substantially triangular shaped arm 22. Any suitable fastening means 21^a may be provided for pivotally connecting the end 21 of the arm 22 to the platform. Pivotally connected to the end 23 of the arm is one end of a link 24, the other end of the link is pivotally connected to a suitable supporting plate 25 by means of a connecting bolt or rivet 26 and said supporting plate 25 is secured to the side 18 of the cabinet in any suitable manner, preferably by screws or nails 27. One of these arms 22, links 24, and supporting plates 25 is provided adjacent each side of the top.

The end 28 of the arms 22 are preferably located at a point intermediate the ends 21 and 23 of the arm and these ends 28 are connected in any suitable manner, preferably by means of a transverse bar or rod 29 which

extends transversely across the cabinet top with its extremities secured in any suitable manner to the ends 28 of the arms 22. The arm 22 is connected to the cover 11 in any suitable manner, preferably by means of a flexible member 30 such as a chain or the like, one end thereof being secured or connected to the transverse bar or rod 29 at a point intermediate its ends, preferably adjacent the center thereof by means of a suitable clip or fastening device 31 and said flexible member or chain passes over a suitable pulley or sheave 32, which is journaled adjacent the top 10 of the cabinet and in proximity to the opening therein. The other extremity 33 of the flexible member 30 is connected in any suitable manner to the cover 11, preferably at a point adjacent the hinged side thereof and said flexible member is of such a length as to remain substantially taut at all times.

In operation, when the lid or cover 11 is raised, the flexible member 30 will raise the arms 22 perpendicularly through the medium of the connecting bar or rod 29 and cause the link 22 to move about its point of pivotal support 26; at the same time the flexible member 30 will rock the arm 22 about its point of pivotal support with the link 24, the flexible member 30 being of such a length that when the lid or cover 11 is open and the platform 13 is raised to the dotted position shown in Fig. 2 of the drawing, it will be taut and will hold the platform supported in its elevated position. As the forward end of the platform 13 rises, the extension 15 will move along the guides or ways 17 and the projecting rib or projection 19 on the free end thereof will be directed into the groove or slot 20 in the top 10. The links 24 are so related to the arms 22 that when the platform or support 13 is in its lowered position, as shown more clearly in Fig. 2 of the drawing, the end of the platform or support will engage and rest against the links 24, which latter serve as stops for the platform. The end 28 of the arm 22 is preferably located at a point intermediate the ends 21 and 23 and stands below the link 24 when the platform is lowered and at a point preferably intermediate the points of pivotal support of the link with the cabinet and the end 23 of the arm 22. With this arrangement considerable leverage is obtained upon the arm 22 and when the lid or cover 11 is raised, the arm 22 moves in a vertical direction and at the same time rotates about its point of pivotal support with the link 23, thereby throwing

the end 21 of the arm forward into the position shown in dotted lines in Fig. 2 when the platform or support 13 is raised.

In order that the invention might be fully understood, by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described but

What I claim as new therein and desire to secure by Letters Patent is:—

1. In a sewing machine cabinet, the combination of a table top, a platform hinged to the top, two arms pivoted to the platform, a cross bar connecting said arms together, means connected to the bar for raising the platform, and links, one end of which is pivoted to the top, the other ends being pivotally connected to the arms at a point in their length intermediate the ends of the latter, said links standing within the path of movement of the platform when the latter is lowered to be engaged by the platform to form a stop therefor.

2. In a sewing machine cabinet, the combination of a supporting platform pivotally mounted thereon to raise and lower therein, an arm within the cabinet having a pivotal connection at one end to the platform, a link pivotally connected by one end to the arm beyond the pivotal point of connection of the latter with the platform, the other end of the link being pivotally connected to the cabinet, said link being arranged to be engaged by a portion of the platform when the latter is lowered to limit such movement, and means connected to the other end of the arm for rocking the arm to raise the platform.

3. In a sewing machine cabinet, the combination of a supporting platform pivotally mounted thereon to raise and lower therein, a substantially triangular-shaped arm within the cabinet having a pivotal connection at one end to the platform, a link pivotally connected by one end to the other end of the arm at a point intermediate the other two ends of the arm, said link being pivotally connected by its free end to the cabinet and arranged in the path of movement of and adapted to be engaged by the platform when the latter is lowered to form a stop therefor, and means connected to the third end of the arm for rocking the arm to raise the platform.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 11th day of February A. D. 1907.

RICHARD R. BROWN.

Witnesses:

H. L. HAYWOOD,
C. B. ATWOOD.