

No. 750,664.

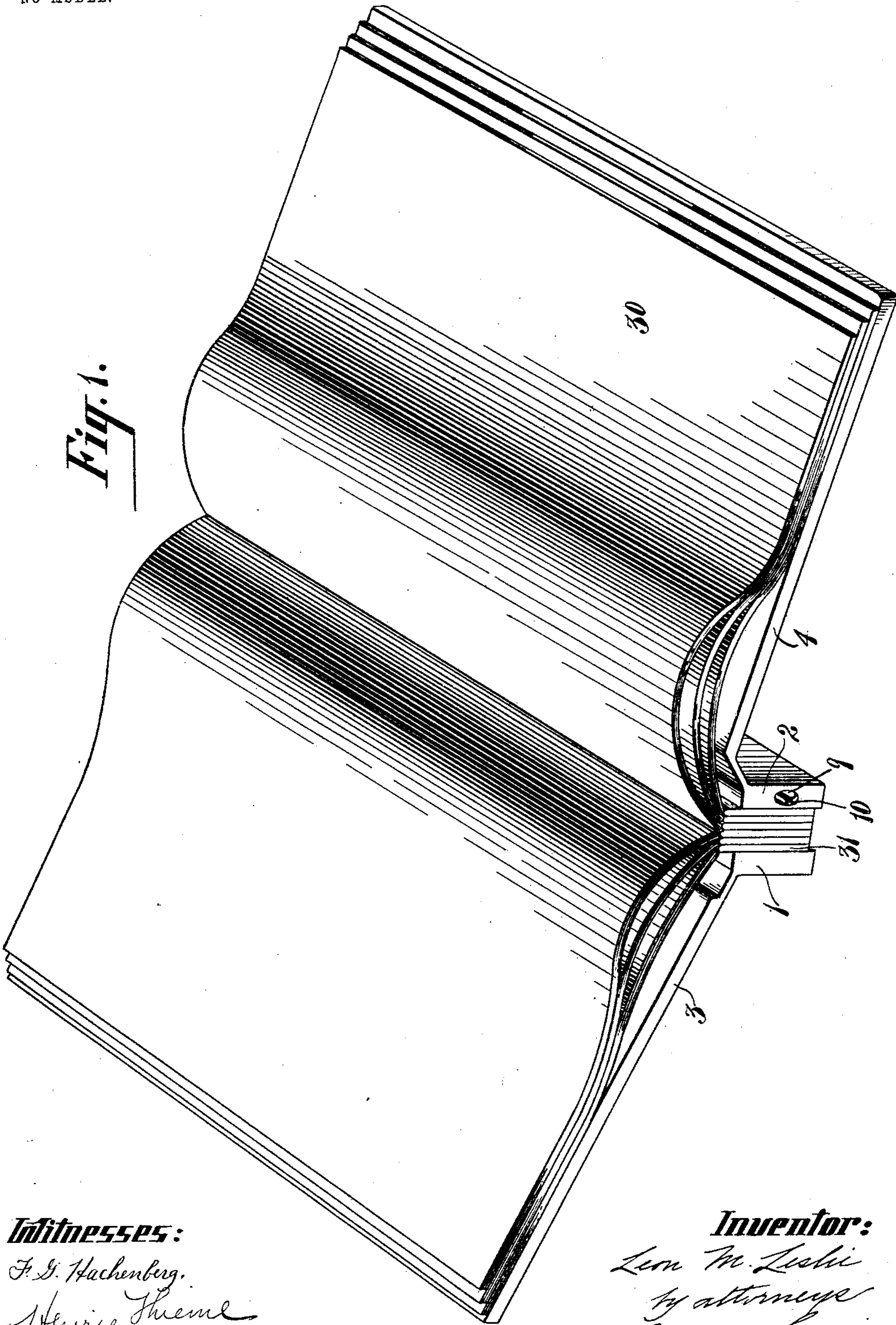
PATENTED JAN. 26, 1904.

L. M. LESLIE.
BINDER FOR LOOSE LEAF LEDGERS.

APPLICATION FILED OCT. 12, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:

F. J. Hachenberg.

Henry Thiele

Inventor:

Leon M. Leslie
by attorneys
Brown & Seward

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2 SHEETS—SHEET 2.

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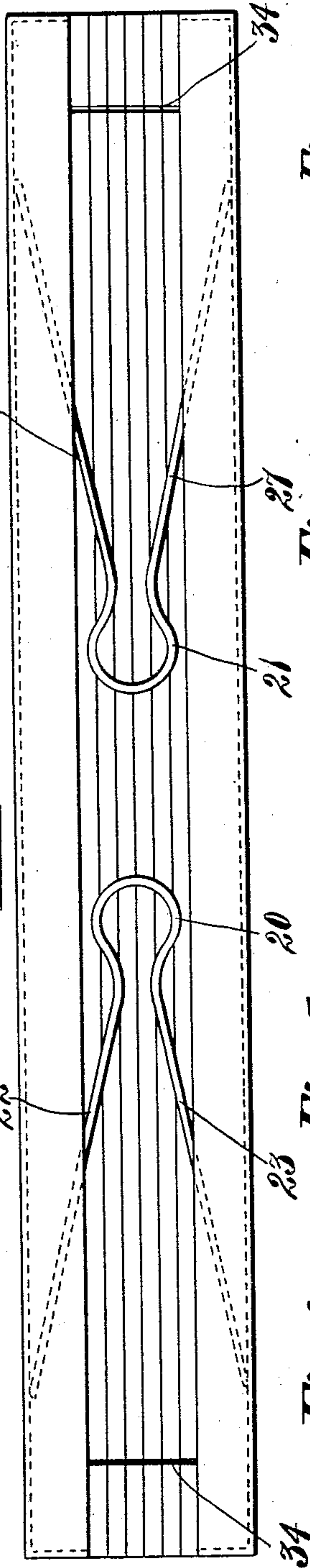
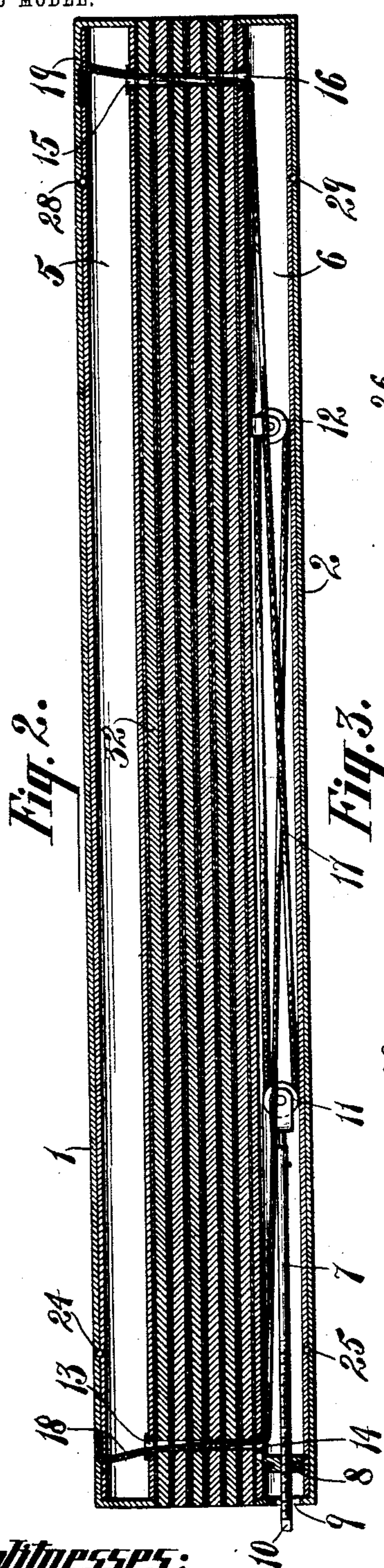
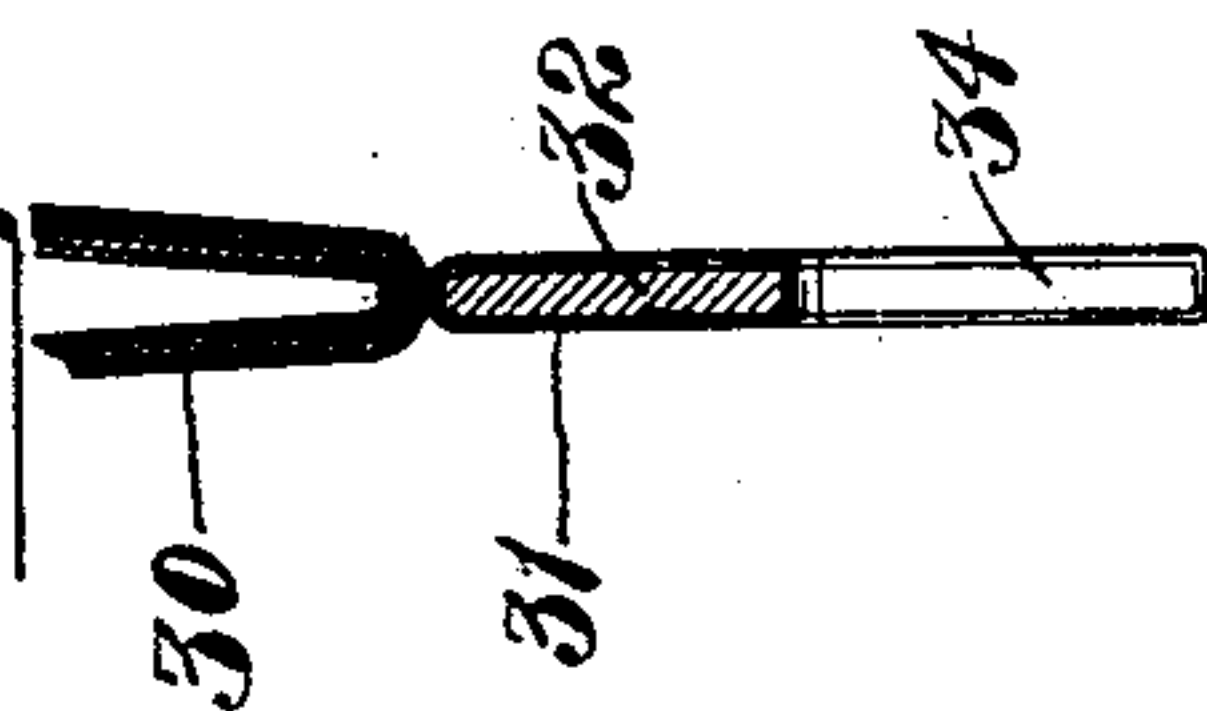
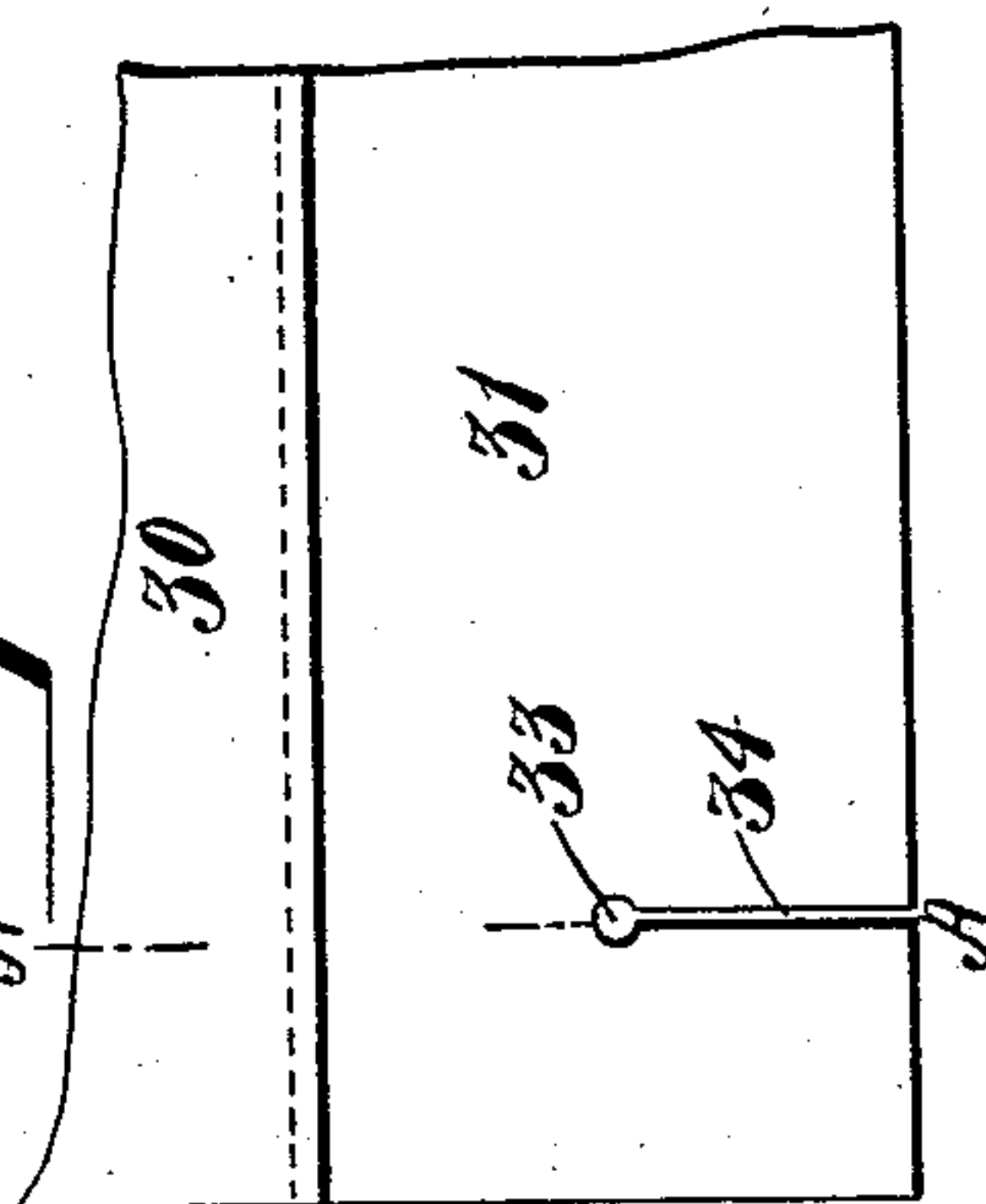
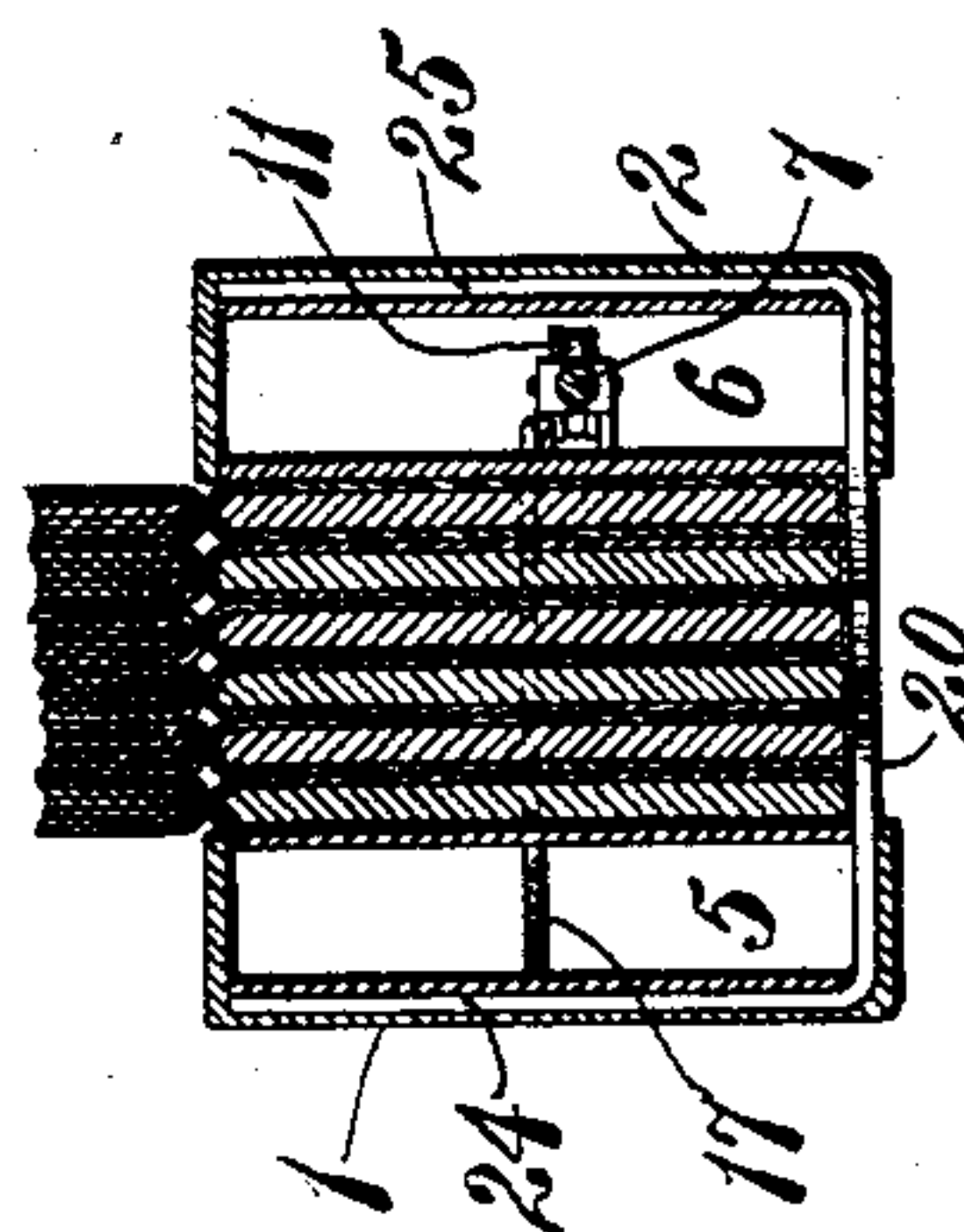
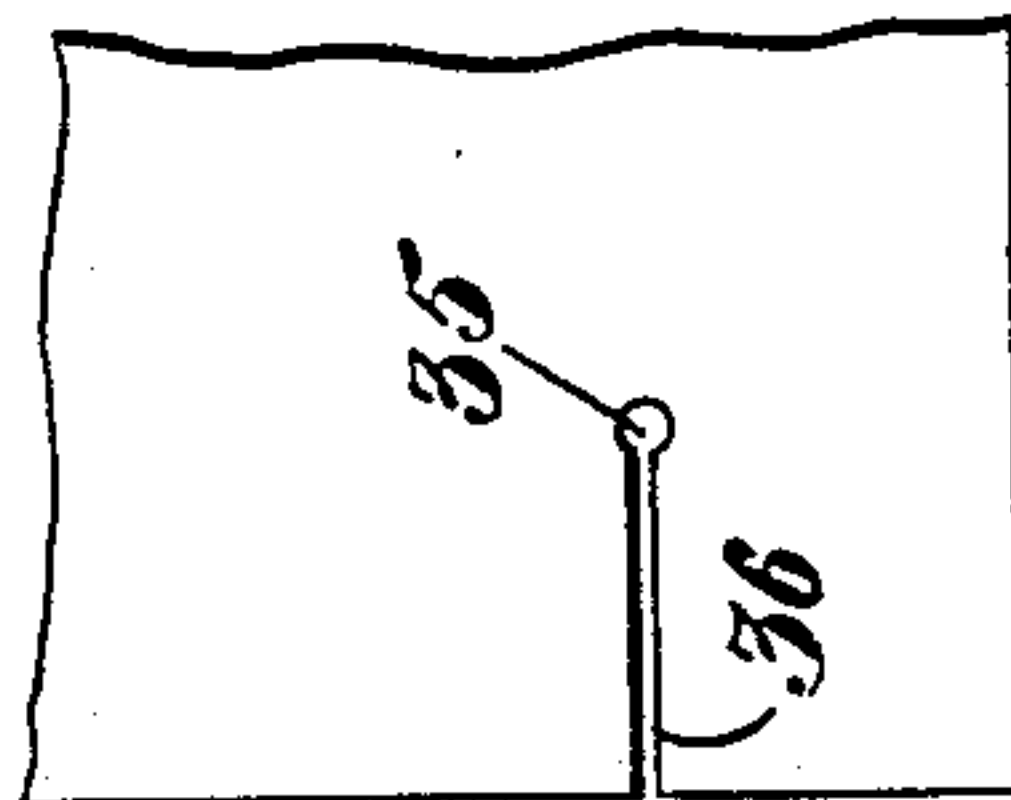


Fig. 1.

Fig. 4.

Fig. 5.

Fig. 6.



Witnesses:

F. B. Hachenberg.
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UNITED STATES PATENT OFFICE.

LEON M. LESLIE, OF NEW YORK, N. Y.

BINDER FOR LOOSE-LEAF LEDGERS.

SPECIFICATION forming part of Letters Patent No. 750,664, dated January 26, 1904.

Application filed October 12, 1903. Serial No. 176,604. (No model.)

To all whom it may concern:

Be it known that I, LEON M. LESLIE, a citizen of the United States, and a resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Binders for Loose-Leaf Ledgers, of which the following is a specification.

My invention relates to an improvement in binders for loose-leaf ledgers, and has for its object to provide a device in which any one leaf or section of leaves may be quickly inserted into or removed from the binder.

A further object is to provide certain improvements in the construction, form, and arrangement of the several parts of a temporary binder whereby the operation of the same is rendered extremely simple and in which a powerful grip may be obtained upon the inner edges of the leaves when held in position between the covers of the binder.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents the binder in perspective, a number of sections being shown clamped therein and the covers being in their open position. Fig. 2 is a longitudinal section showing the means for clamping and releasing the leaves of the book. Fig. 3 is a back view of the book. Fig. 4 is a transverse section through the book. Fig. 5 is a detail view of one of the book-sections. Fig. 6 is a cross-section through the same in the plane of the line A A of Fig. 5, and Fig. 7 is a detail view of a single leaf.

The binder which I have represented is composed of two covers, comprising inner members 1 and 2, outer members 3 and 4, flexibly connected thereto, and means for drawing the inner members 1 and 2 toward each other and means for forcing them apart. The inner members 1 and 2 of the covers are reinforced by stiff hollow casings 5 and 6, preferably made of metal. A traveling screw 7 extends into the casing 6 and has a screw-threaded engagement with a stationary nut 8, secured near one end of the casing. The end of the casing is provided with a hole 9, through which access may be gained to the square end 10 of the screw 7 by a key or other device (not

shown herein) suitable for turning the screw. The inner end of the screw is provided with a pulley 11, swiveled thereto. A second pulley 12 is permanently secured within the casing 6 at a distance from the pulley 11.

The faces of the inner members 1 and 2 of the covers are provided with two sets of openings 13 14 and 15 16, which openings may be formed by suitable eyelets.

The binder-cord 17 is secured at one end, 18, to the member 1 of the cover. It then is led through the holes 13 and 14, around the stationary pulley 12, around the pulley 11, carried by the traveling nut, from thence through the holes 16 and 15, and has its end 19 attached to the member 1 near the opposite end of the said member from the point where the end 18 is attached.

Springs 20 21 are located at the back of the book in position tending to force the members 1 and 2 apart. The spring 20 is provided with flaring branches 22 23, having laterally-extended arms 24 25. The spring 21 is similarly provided with flaring branches 26 27, having laterally-extended arms 28 29. These laterally-extended arms 24 25 28 29 permit the springs 20 21 to exert an even pressure throughout the width of the inner members 1 and 2 of the covers, and thus prevent cramping of the parts.

The leaves may be inserted in the binder and removed therefrom in sections, as follows: A group of any number of folded leaves 30 are stitched to a strip 31 of canvas or other suitable material, and the strip 31 is cemented or otherwise permanently attached to a back-board 32, of cardboard or other material. This back-board 32 and covering 31 are provided with an eyelet 33 therethrough at each end in position to permit the passage therethrough of the binder-cord 17.

For the purpose of permitting the sections to be inserted into and removed from the binder I provide a slit 34, leading from the eyelet 33 to the exterior of the section.

Where it is intended to use single leaves in connection with the binder, an eyelet 35 is provided in the leaf near its rear end in position to correspond with the binder-cord and a slit 36 leads therefrom to the edge of the leaf,

either at the end of the leaf or at its back, as may be desired.

It will be seen that by the use of the binder herein described the leaves or sections of leaves may be readily inserted or removed when the traveling screw 7 is screwed inwardly a sufficient distance to permit the springs 20 21 to force the inner members 1 and 2 of the binder-covers apart.

After the required leaves or sections have been inserted into positions between the members 1 and 2 of the covers the traveling screw 7 may be turned in a direction to draw the two members 1 and 2 of the covers toward each other, thus snugly clamping the leaves or sections of leaves therebetween.

It is to be understood that in a book of this character leaves and sections of leaves of varying sizes may be conveniently used in a standard size of binder.

What I claim is—

1. A temporary binder comprising covers, a binder-cord having its ends attached to one cover, means carried by the other cover engaging the cord for drawing the covers toward each other and means tending to force the covers apart.

2. A temporary binder comprising covers,

a binder-cord having its ends attached to one cover, means carried by the other cover engaging the cord for drawing the covers together and springs interposed between the covers tending to force them apart.

3. A temporary binder comprising covers, a binder-cord having its ends attached to one cover, a stationary pulley and a traveling pulley located in the other cover engaged by the cord, means for moving the traveling pulley toward and away from the stationary pulley to release or tighten the cord and means tending to force the covers apart.

4. A temporary binder comprising covers, a binder-cord having its ends attached to one cover, a traveling screw located in the other cover, a pulley carried by the screw and a pulley carried by the last-named cover engaging the cord, and means tending to force the covers apart.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 24th day of September, 1903.

LEON M. LESLIE.

Witnesses:

FREDK. HAYNES,
HENRY THIEME.