

No. 847,933.

PATENTED MAR. 19, 1907.

E. W. GIBBS.

TOP.

APPLICATION FILED DEC. 29, 1906.

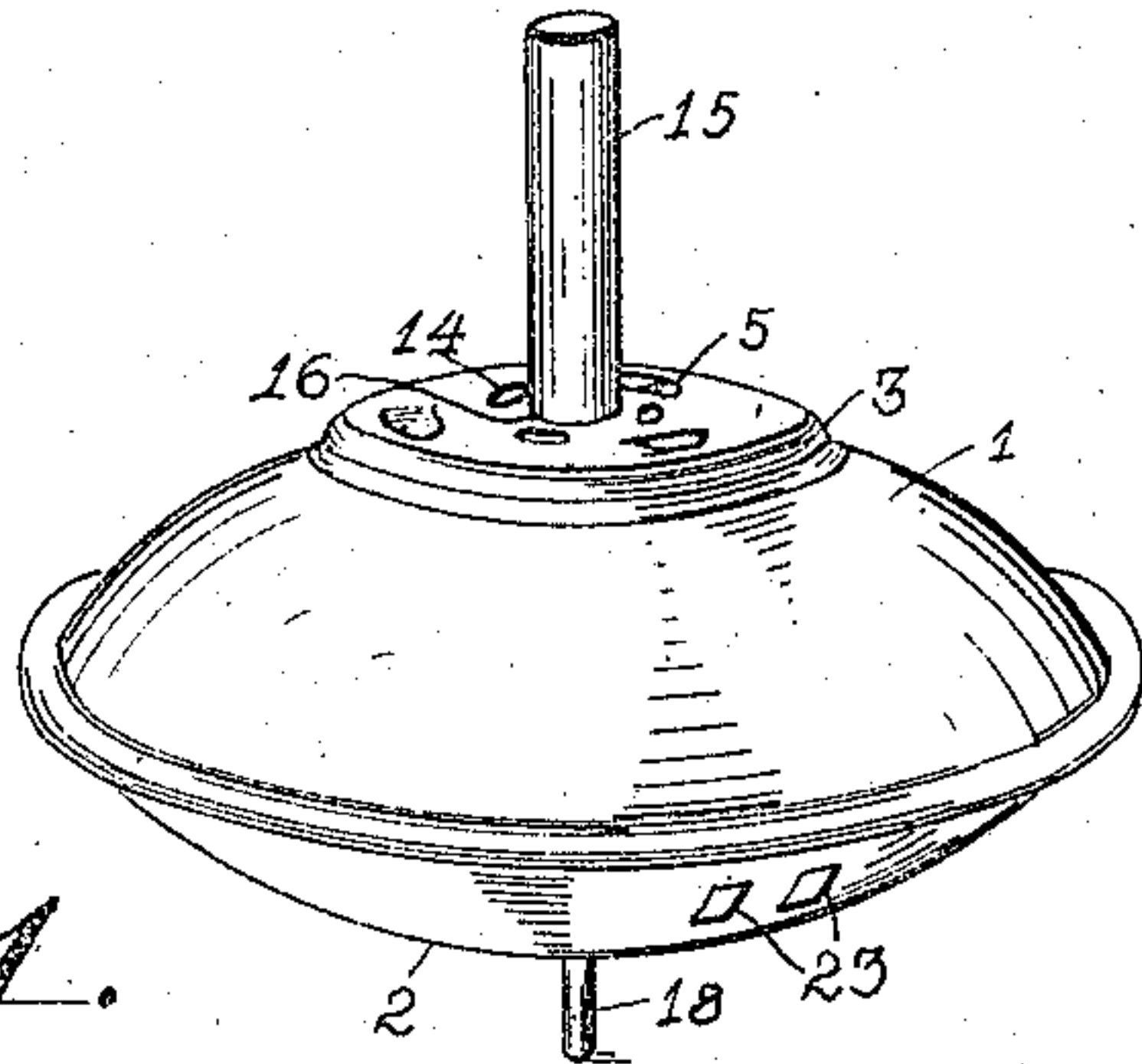


Fig. 1.

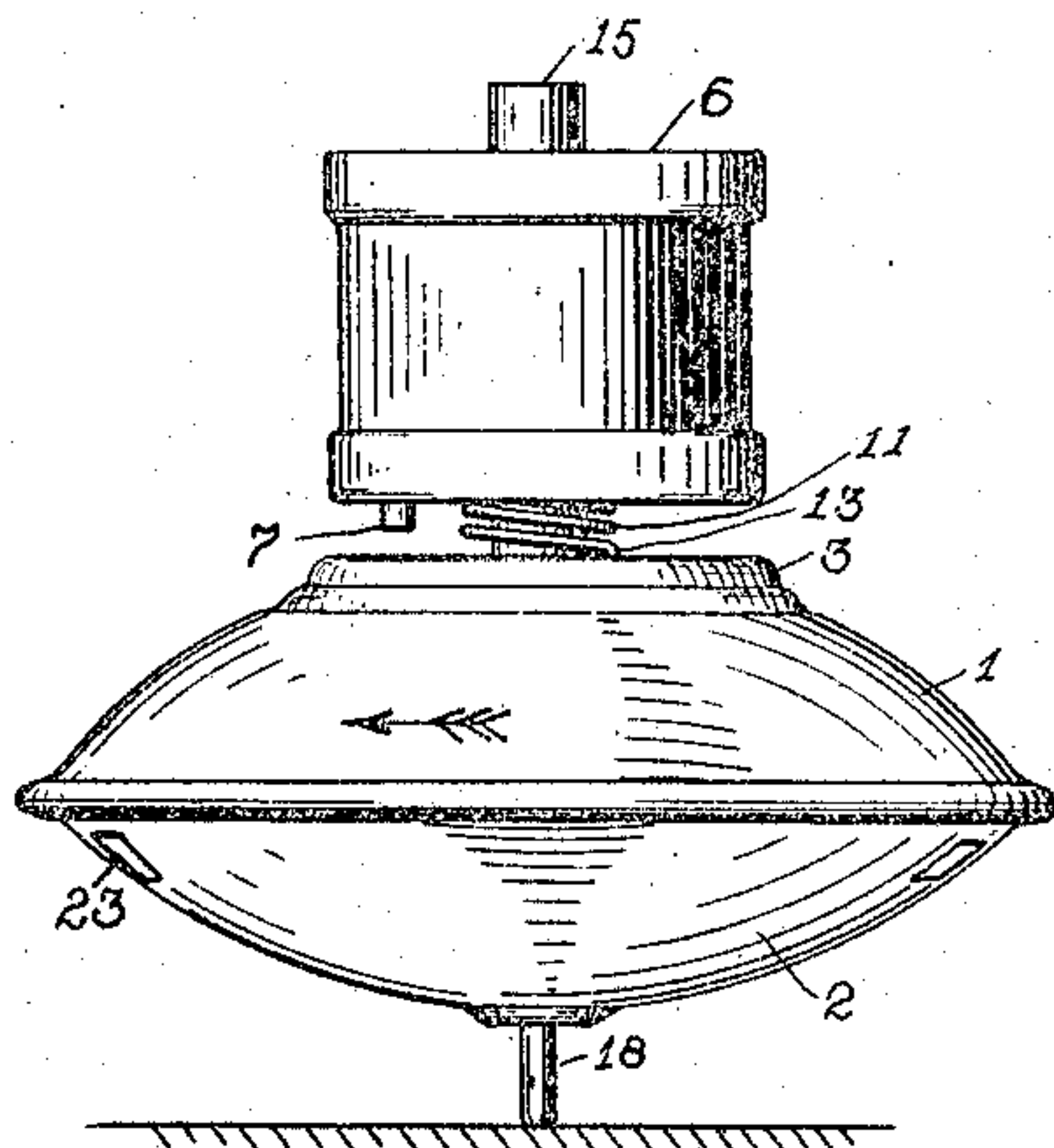


Fig. 2.

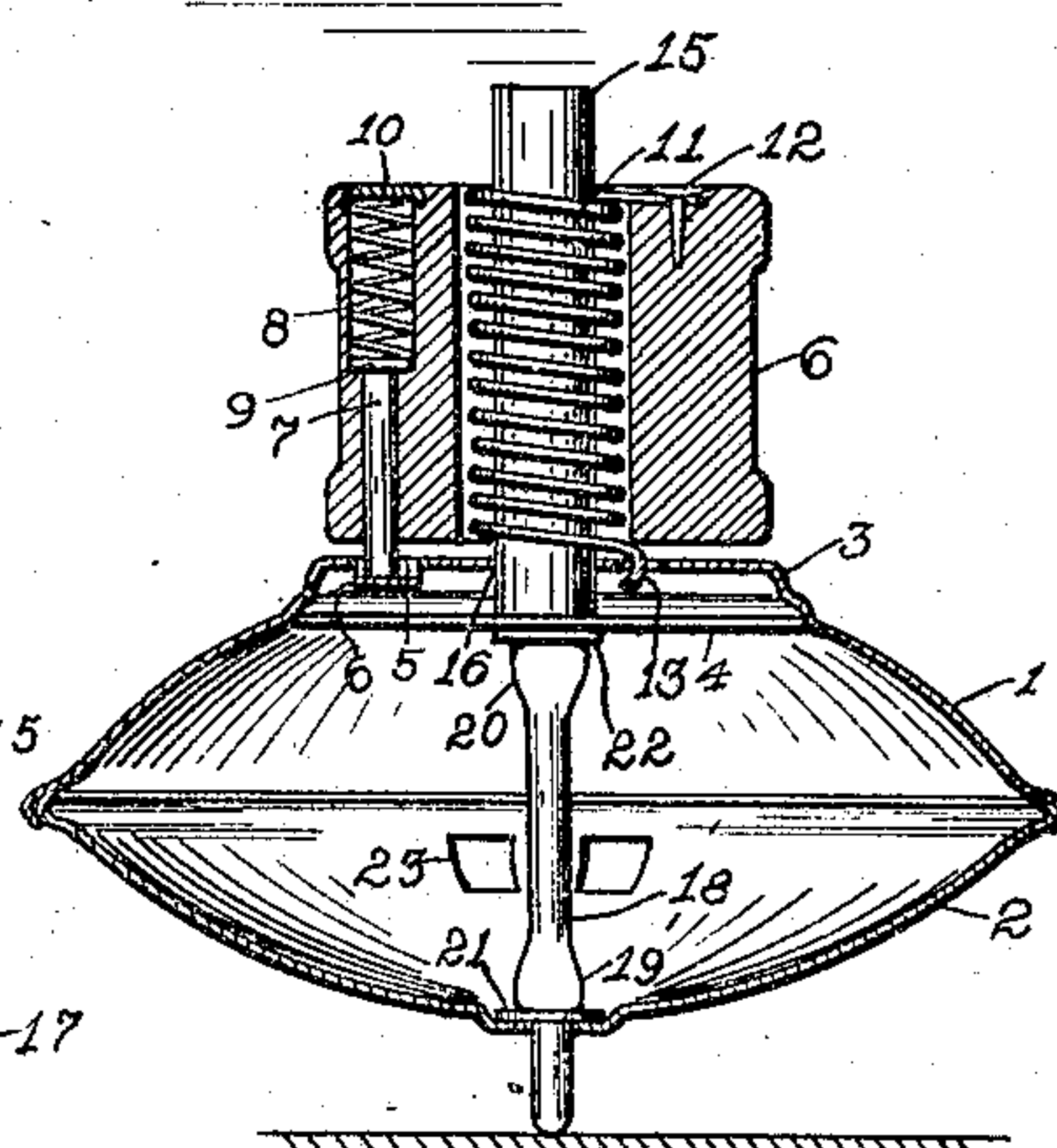


Fig. 3.

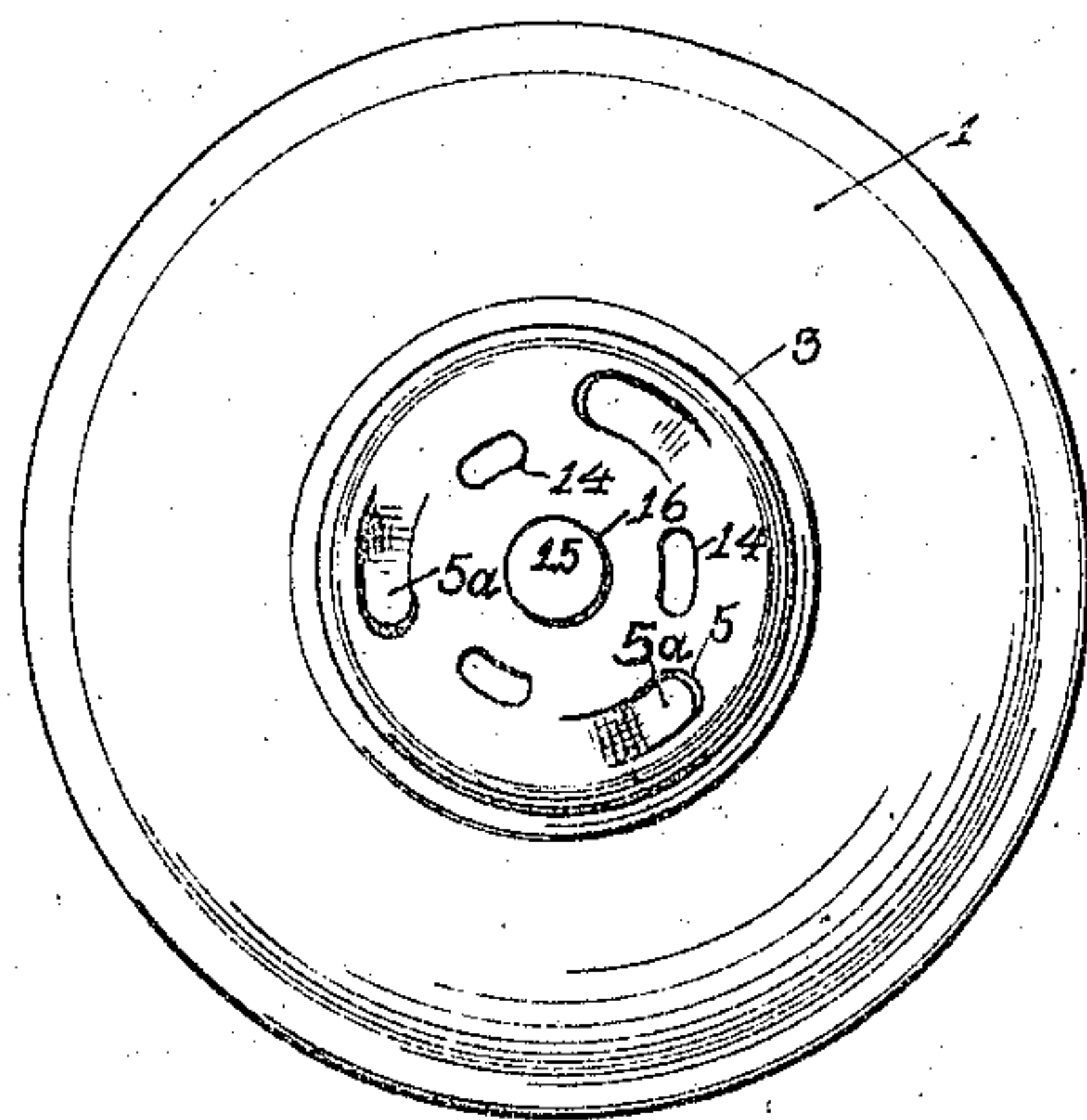


Fig. 4.

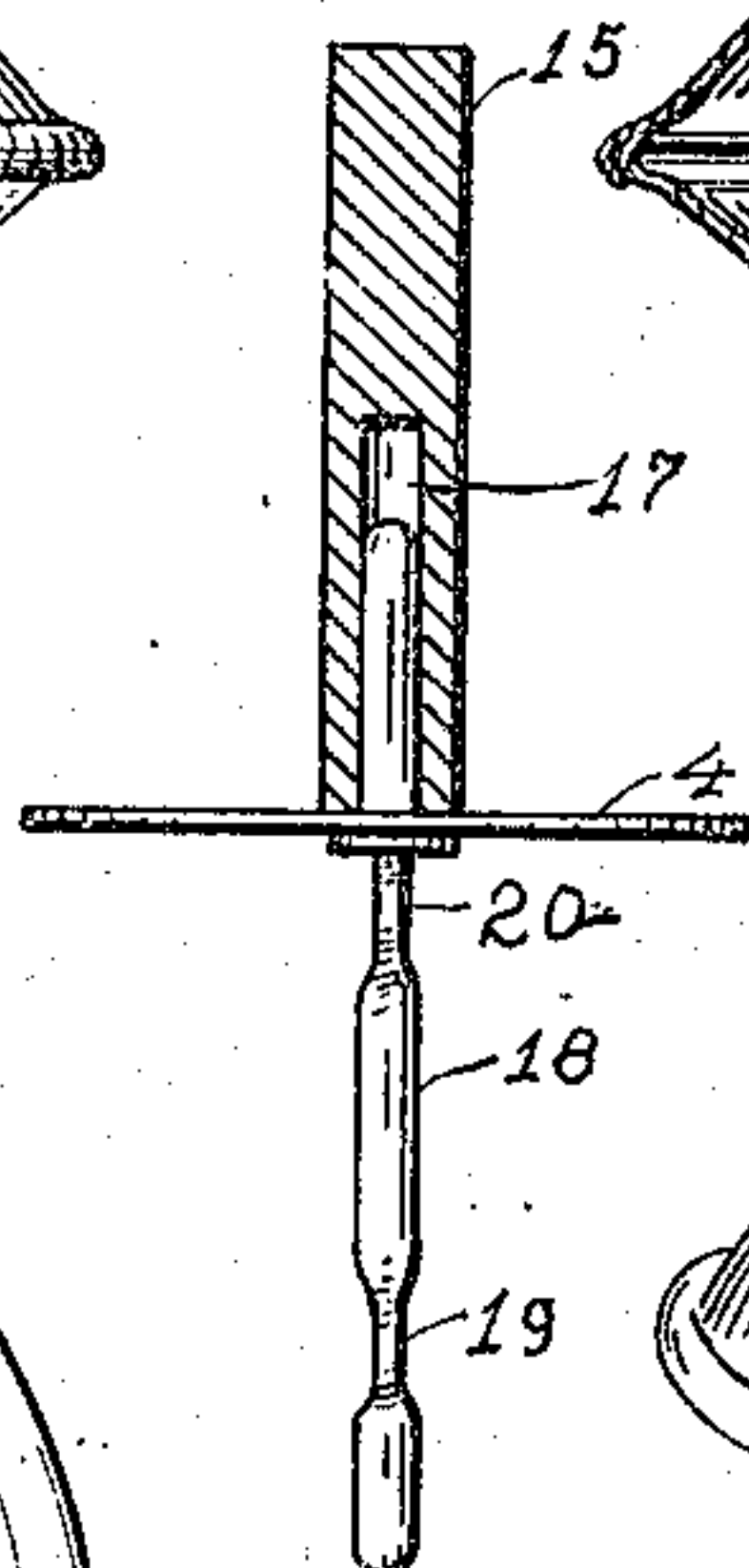


Fig. 7.

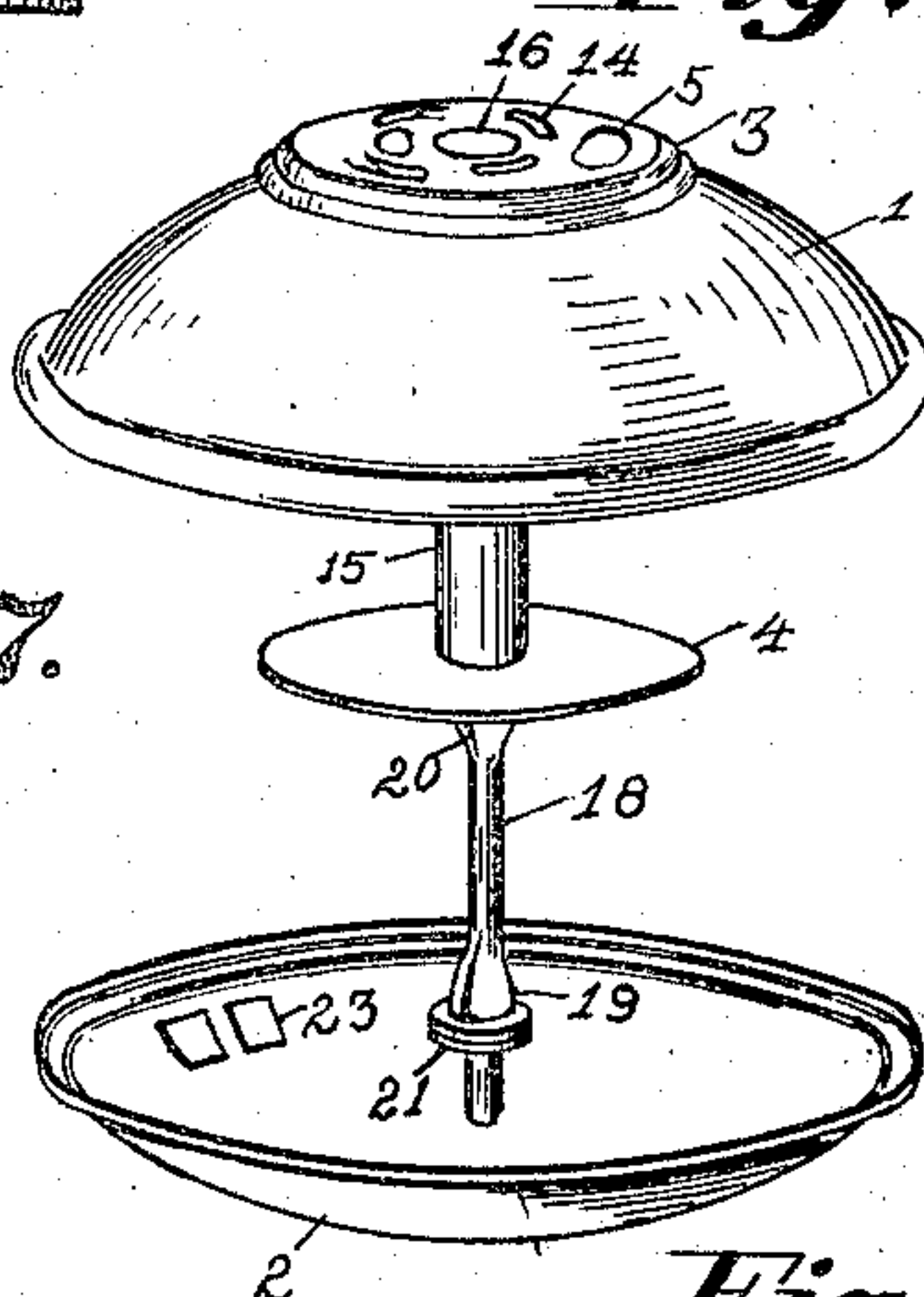


Fig. 5.

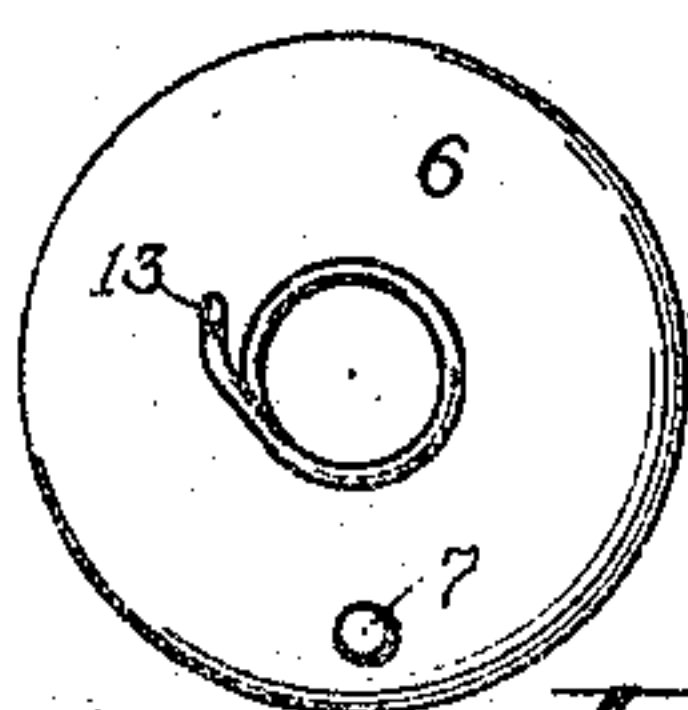


Fig. 6.

Witnesses
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UNITED STATES PATENT OFFICE.

ELMER W. GIBBS, OF CANTON, OHIO, ASSIGNOR TO THE GIBBS MANUFACTURING COMPANY, OF CANTON, OHIO, A CORPORATION OF OHIO.

TOP.

No. 847,933.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed December 29, 1906. Serial No. 349,949.

To all whom it may concern:

Be it known that I, ELMER W. GIBBS, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Tops; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, and to the numerals and figures of reference marked thereon, in which—

Figure 1 is a perspective view of the top, showing the holder removed. Fig. 2 is a side elevation showing the holder partially detached or disconnected from the top except the actuating-spring. Fig. 3 is a vertical section showing all of the parts assembled and connected together. Fig. 4 is a plan top view of the top-body. Fig. 5 is a detached view showing the different parts of the top-body proper, showing the top handle or stem and the spindle connected together, or all of the parts in position to be connected as illustrated in Fig. 3. Fig. 6 is a bottom or under side view of the holder and its spring, also showing the top-engaging pin or point. Fig. 7 is a vertical section of the top-handle, showing the spindle and the air-closing disk properly connected.

The present invention has relation to improvements in tops especially designed to be used in connection with springs for imparting a rapid rotary movement to the top-body; and it consists in the novel arrangement hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the top member, and 2 the lower member, of the top-body, which members consist of two pieces or halves preferably formed of metal and stamped or pressed into the desired form to produce a top-body when the two sections 1 and 2 are connected together, as hereinafter described. The top-section 1 is provided with the integral raised portion or part 3, which integral raised part is for the purpose of providing a means for connecting the disk 4, so that a chamber or space will be

formed between the top surface of the disk 4 and the under surface of the integral raised part 3, as best illustrated in Fig. 3. For the purpose hereinafter described the disk 4 is so connected that practically an air-tight joint is produced, thereby cutting off the inflow of air into the chamber of the top-body proper. The disk 4 is spaced from the top of the integral portion 3 for the purpose hereinafter described. The top face of the integral portion 3 is provided with a series of curved indentations or slots 5, which slots are located substantially as shown; and for the purpose hereinafter described the bottom of said slots are provided with the inclined members or lips 5^a, which members may be cut from the metal upon their sides and one end, as desired, or said inclined portions may be left entirely integral, if desired, as the only object to be accomplished is to provide a recess with an inclined bottom. To the holder or spring twisting-head 6 is connected the locking-pin 7, which locking-pin is extended into the holder or spring twisting-head, as illustrated in Fig. 3, and above said pin is located the spring 8, which spring is for the purpose of normally holding the locking-pin in its lowermost position.

For the purpose of preventing the pin from becoming accidentally detached it is provided with the head 9, which limits the downward movement of the locking-pin and at the same time connects the pin to the holder or spring twisting-head 6 in such a manner that it cannot be detached. The spring 8 is held between the head 9 and the disk 10, said disk being securely connected in any convenient and well-known manner to the holder or spring twisting-head 6. To the holder or twisting-head 6 is attached the spring 11 by means of a short nail or equivalent device 12. The spring 11 is located in the holder 6, and its lower convolution extended below or beyond the connecting end of the holder 6 and provided with the hook 13, which hook is for the purpose of engaging one of the apertures 14, formed in the integral raised portion 3. The top handle or stem 15 is located through the aperture 16, its bottom or lower end seated snugly against the top or upper face of the disk 4, as best illustrated in Figs. 3 and 7. The top handle

or stem 15 is provided with the recess 17, which recess is formed of sufficient depth to properly connect the top or upper end of the spindle 18 to said handle or stem 15. The spindle 18 is provided with shoulders 19 and 20, which shoulders are preferably formed by flattening the spindle 18; but this manner of forming the shoulders is mechanical, and I do not desire to be confined to any particular manner of forming the shoulders 19 and 20, as the function performed by the shoulders can be carried out regardless of their formation. The top and bottom shoulders are spaced apart equal to, or substantially so, to the distance between the under face of the disk 4 and the top face of the lower top-section 2, reference being had to the placing of suitable reinforcing-washers 21 and 22.

It will be understood that when the top-sections 1 and 2 are brought together their meeting edges should be, and must be, so located that the two sections can be properly seamed or connected together, and in order to accomplish this result and to provide for any slight variations the reinforcing-washers may be increased either in number or in thickness; but I prefer to increase or decrease the number of washers and form the washers of uniform thickness, so that proper adjustment can be made for the slight variations which may be found either in the exact distance of the shoulders between the spindle or size of the top-sections 1 and 2. It is well understood that slight difference exist as to the exact size of different parts, although the parts are intended to be interchangeable one with the other. By my peculiar arrangement in connecting the spindle and handle, the top-sections, and the disk 4 together they can all be brought together, and when the top-sections are properly seamed the closing of the seam will snugly bind all the parts together, so as to produce a rigid structure, without soldering or brazing. By extending the top handle or stem through the integral top 3 it will be supported at a point above its bottom or lower end, and thereby prevent any prying movement or action as between the spindle and the top stem or handle.

In use the holder 6 is placed in the position illustrated in Fig. 3 and rotated until the spring 11 is brought into proper tension, after which the handle or stem 15 is forced downward, thereby releasing the locking-pin 7 from its engaging recess or slot, at which time the stored power of the spring imparts a whirling movement to the top-body by reason of the engagement of the hook 13 with one of the apertures 14. The hook 13 must be so shaped that it is free to become disengaged from its engaged aperture 14.

For the purpose of producing what might be termed a "humming top" the lower sec-

tion 2 is provided with the apertures 23; but in order to produce a humming sound the inflow of air into the hollow top-body must be cut off, and for this purpose and for the purpose of bracing the top handle or stem 15 the disk 4 is provided. The holder 6 is free to be rotated in the direction to compress the spring 11 and is held against backward movement by reason of the locking-pin engaging the end of one of the slots or recesses formed in the integral top portion 3; but by reason of the end of the locking-pin riding up the inclined bottom of the slot no resistance is offered to rotate the holder to wind or store energy in the spring 11.

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

1. In a top, a top-body formed in sections, the upper section provided with recesses having inclined bottoms and apertures, a holder having connected thereto, a spring, said spring adapted to be connected at its free end to the top-body and a locking-pin, a spring adapted to actuate the locking-pin in one direction and a top-stem and a spindle connected together, said spindle and top-stem connected to the top-body, substantially as and for the purpose specified.

2. In a top, a top-body formed in sections and the sections adapted to form a hollow top-body, a disk spaced from the under side of the upper top-body section, a spindle provided with shoulders, said shoulders adapted to form supports for the top-body sections, a top handle or stem secured to the spindle and a holder provided with a spring, means for holding one end of the spring against rotation with the rotation of the holder and means for holding the holder against rotation in one direction and against the force of the spring, substantially as and for the purposes specified.

3. In a top of the class described, a hollow top-body provided with apertures, a spindle connected to said top-body, a disk located in the upper portion of the top-body and spaced from the under surface of the top-body, said disk adapted to atmospherically close the upper or top portion of the top-body, a top-handle secured to the spindle and its lower end seated upon the disk and extended below the top of the top-body and a holder provided with a spring adapted for connection with the top-body and means for holding the holder against rotation in one direction, substantially as and for the purpose specified.

4. In a top of the class described, the combination of a top-body formed in sections, a spindle provided with shoulders reinforcing-disks seated upon the shoulders and adapted to space the top-body sections, a top handle or stem connected to the spindle and a holder provided with a spring, a spring-actuated

locking-pin carried by the holder and means
for detachably connecting the spring to the
top-body, and means for temporary engage-
ment of the top-body with the spring-actu-
5 ated locking-pin, substantially as and for the
purpose specified.

In testimony that I claim the above I

have hereunto subscribed my name in the
presence of two witnesses.

ELMER W. GIBBS.

Witnesses:

F. W. PREYER,
S. M. NAYSMITH.