

No. 696,869.

Patented Apr. 1, 1902.

H. P. GILLETTE.  
MUTOSCOPE.

(Application filed May 13, 1901.)

(No Model.)

Fig. 1

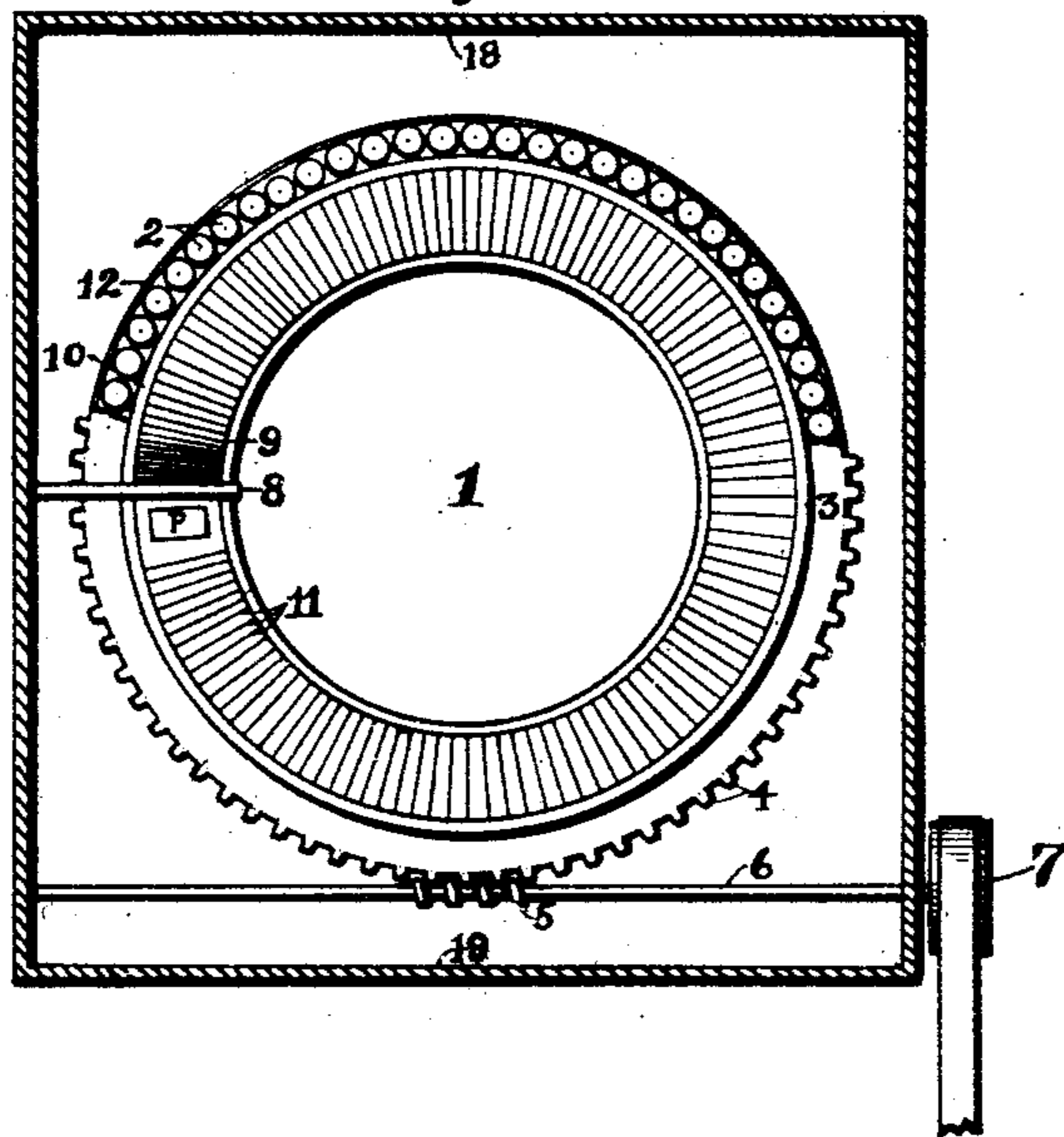


Fig. 2.

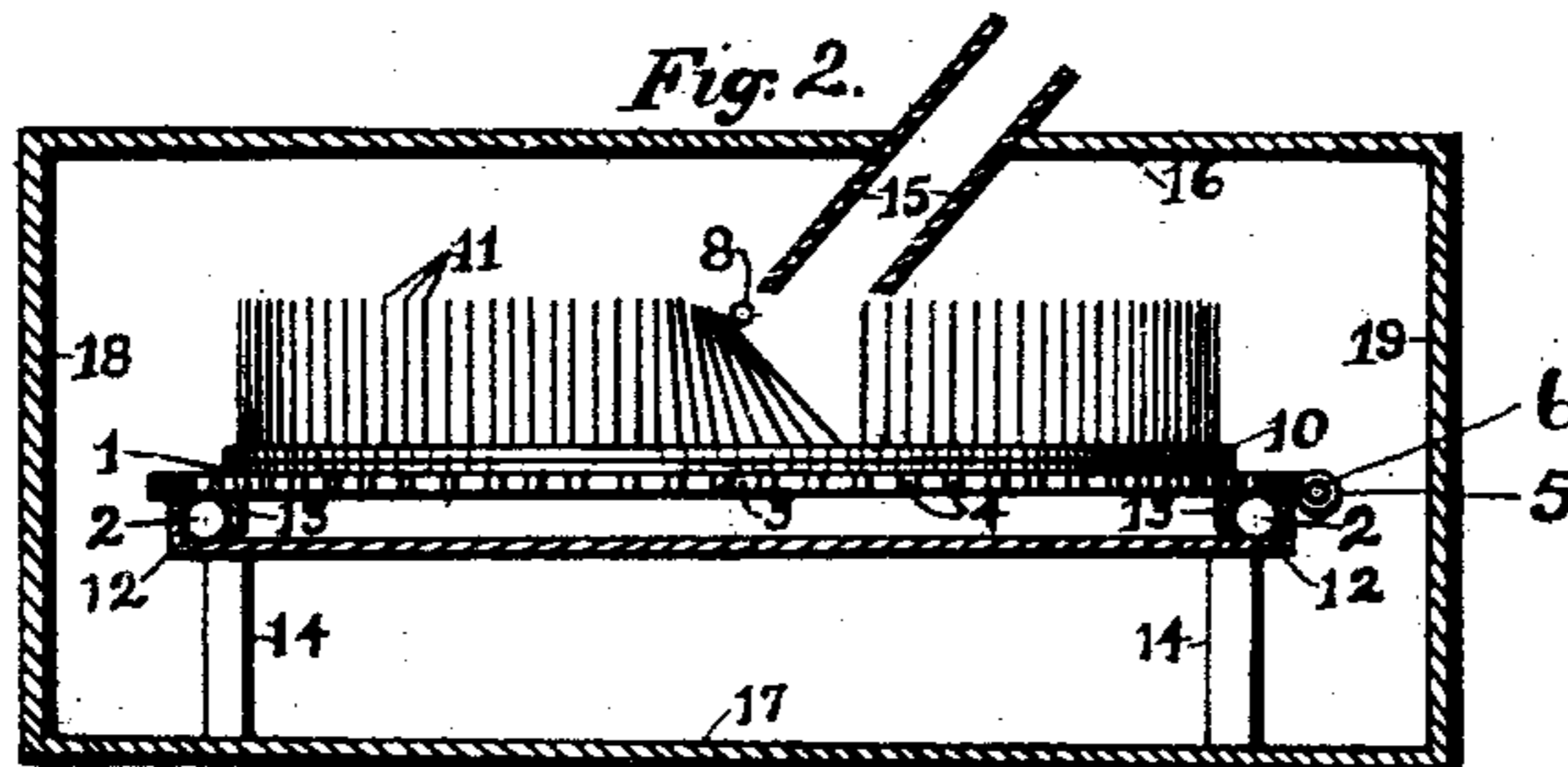
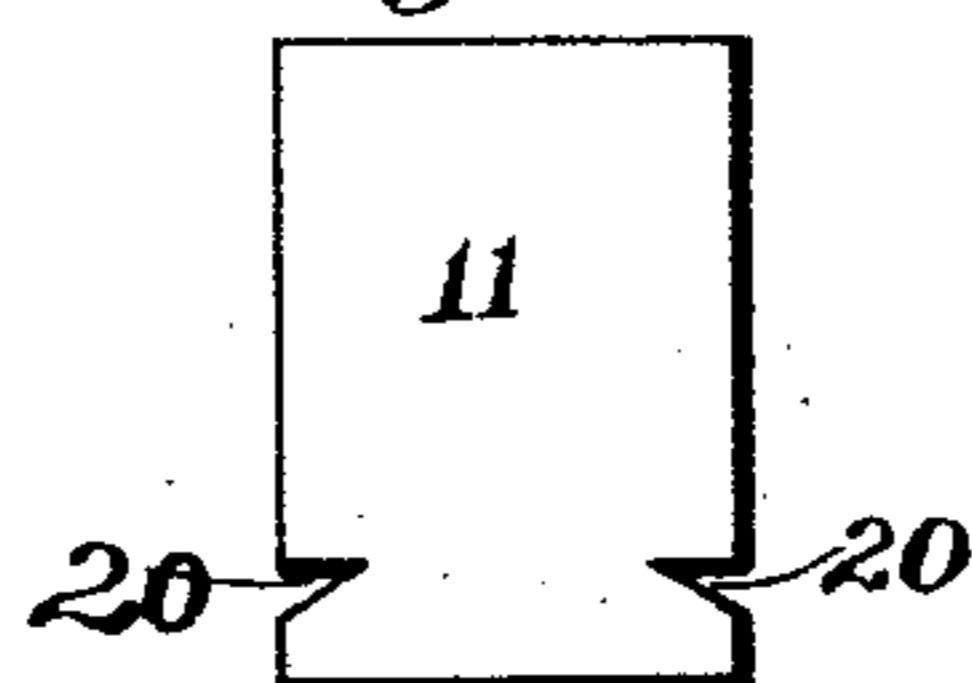


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## MUTOSCOPE.

SPECIFICATION forming part of Letters Patent No. 696,869, dated April 1, 1902.

Application filed May 13, 1901. Serial No. 60,040. (No model.)

*To all whom it may concern:*

Be it known that I, HALBERT POWERS GILLETTE, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Mutoscopes; and I do hereby declare the following to be 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.

My invention relates to improvements in mutoscopes; and the object of my invention is to produce a cheap, easily-operated, and efficient apparatus for presenting a series of pictures in rapid succession to the eye of an observer. These objects I secure by mounting the pictures in a circle upon a rotary disk or turn-table provided with a retaining holder or thumb. Any desired means may be used to rotate this disk, which is preferably inclosed in a casing illuminated by an electric lamp, for example, and revolved by any preferred kind of motor.

My invention consists in the construction and combination of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a horizontal section of the inclosing casing with the operative parts shown beneath, some of these parts being broken away. Fig. 2 is a cross-section of the same, and Fig. 3 is an enlarged view of one of the cards carrying a picture.

1 represents a flat disk or turn-table, which is supported on the antifriction-balls 2 and provided with an annular rim 3, upon which are located the gear-teeth 4, which mesh with the worm-gear 5 on the shaft 6, which is driven by a pulley 7 by means of a belt connected with any suitable motor. Of course any desired means for driving the disk may be used.

8 represents a long thumb or holder fastened to the side of the casing and extending over the pictures 11, which are mounted on the disk 1 between the rings or washers 9 and 10. These pictures are held by annular washers, the sides of these washers adjacent the cards being so shaped as to enter the notches in the cards, these washers being pasted or

otherwise secured in any suitable way to the disk 1 between the rings 9 and 10.

11 represents the cards carrying the pictures. These cards are preferably notched near their lower end, as at 20, the washers fitting into the notches, so that when they are bent backward by the holder 8 they will present practically a flat surface to the eye.

A flat circular table provided with an upward circular extension 12 and supporting-legs 14 is used to support the disk or turn-table 1. This disk has a downwardly-projecting ring 13 of slightly less diameter than the ring 12, the two rings together serving to confine the antifriction-balls 2 in a circle. It is of course obvious that any desired means for supporting the disk 1 may be used and any desired means for reducing the friction, the parts just described furnishing a convenient means for so doing.

The mutoscope proper is mounted in a casing having a bottom 17, a top 16, and sides 18 and 19. This casing may of course be of any desired shape and size, and it is provided with a tube 15 in its top, through which the observer looks at the pictures as they are successively presented to his eye. Of course an aperture may be used instead of the tube 15, if desired, and if it is deemed preferable a lens may be mounted in said tube or aperture.

In Fig. 1, *p* represents the picture which the observer sees. As the disk is rotated the pictures are bent back by the holder or thumb 8 until each is substantially at right angles to the tube 15, in which position the observer sees it. As the disk revolves the pictures are presented one at a time in rapid succession to the eye of the observer, producing the well-known effect of moving objects upon his eye.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a mutoscope, the combination of a disk, and flexible picture-cards mounted perpendicularly in an endless series on the face of the disk.

2. In a mutoscope, the combination of a disk and pictures mounted in a plane per-

pendicular to said disk, said pictures being arranged radially on the surface of said disk.

3. In a mutoscope, the combination of a disk, flexible pictures mounted in a plane perpendicular to said disk, and means for supporting and rotating said disk.

4. In a mutoscope, the combination of a disk, an endless series of pictures mounted endwise upon the face thereof, a thumb engaging said pictures at a certain period of the revolution of said disk, and means for rotating said disk.

5. In a mutoscope, the combination of an inclosing casing provided with an observing-aperture, a thumb secured to said casing, a horizontal disk provided with annular washers, pictures vertically mounted on said disk between said annular washers, antifriction devices supporting said disk, and means for revolving said disk.

6. In a mutoscope, the combination of an inclosing casing provided with an observing-tube, a thumb secured to said casing, a table

or support provided with an upwardly-projecting annular washer, a disk provided with a downwardly-projecting annular washer, antifriction-balls between said annular washers, said disk being also provided with concentric annular washers on its upper surface, and pictures secured to said disk between said annular washers perpendicular to said surface and radially arranged thereon, and means for rotating said disk.

7. In a mutoscope, the combination of a disk, flexible picture-cards mounted perpendicularly in an endless series on the face of the disk, and a thumb for detaining and snapping said cards into view when moved relatively thereto.

In testimony whereof I affix my signature in presence of two witnesses.

HALBERT POWERS GILLETTE.

Witnesses:

FRED. M. WHITNEY,  
W. E. DRAKE.