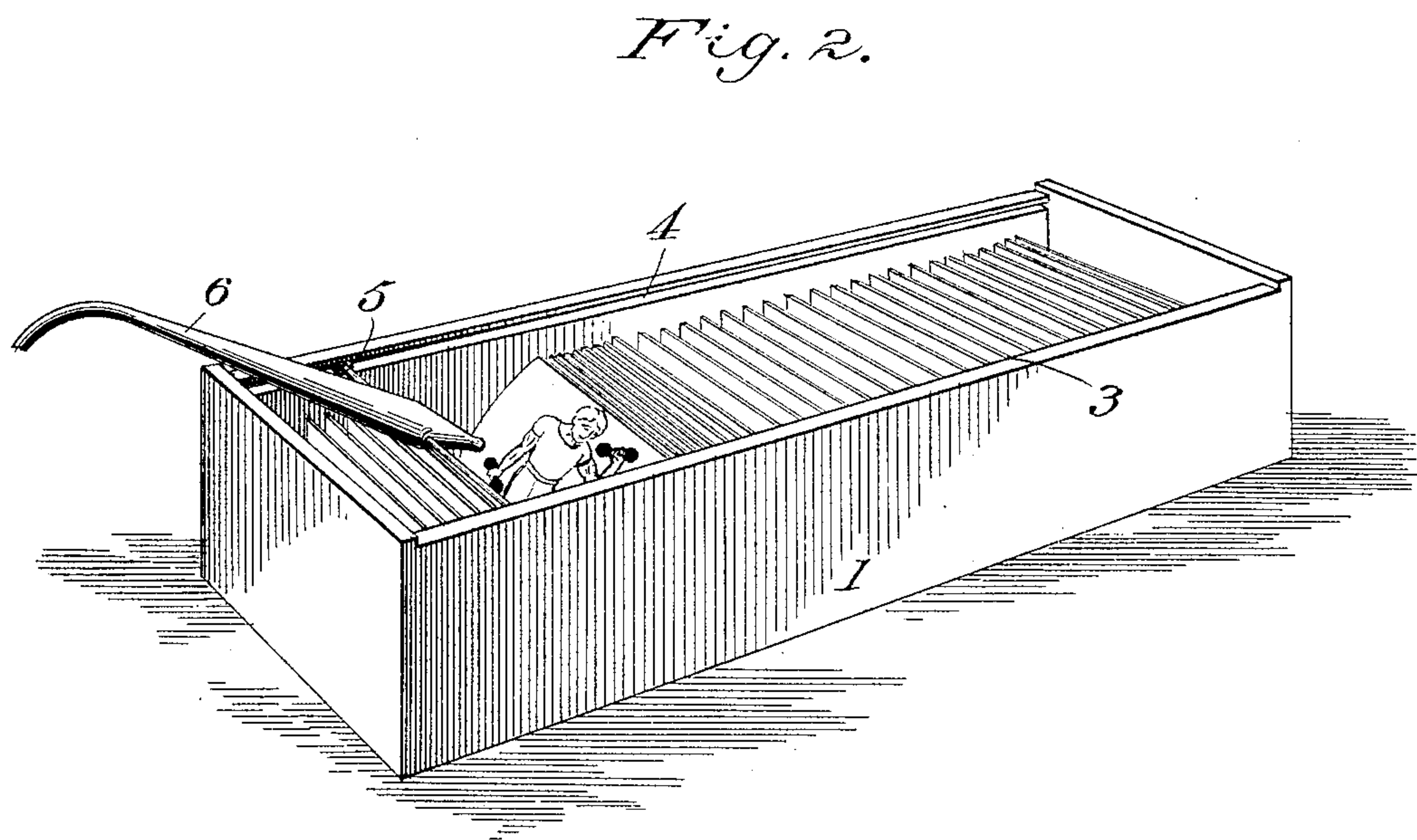
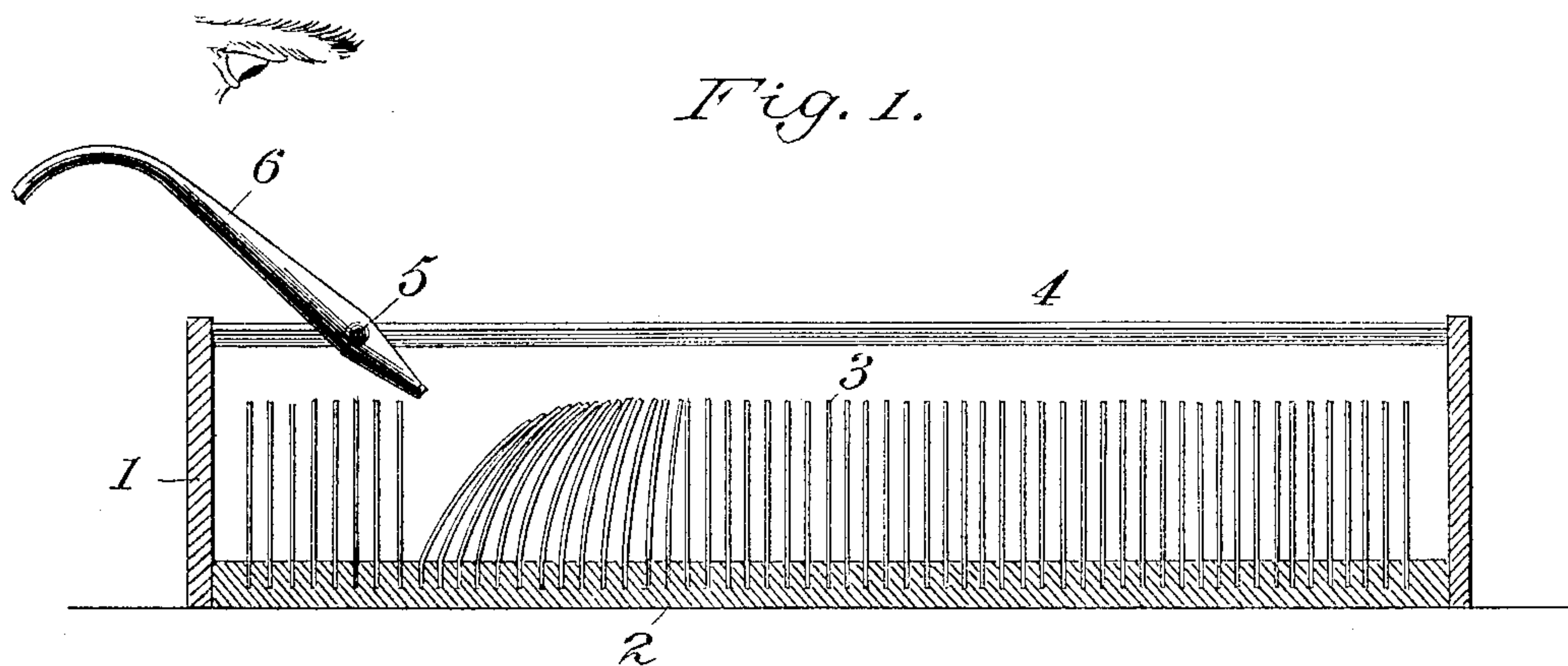


(No Model.)

H. N. MARVIN.  
MUTOSCOPE.

No. 584,311.

Patented June 8, 1897.



WITNESSES:

*W. H. Humphrey.*

*Wm. C. Smith.*

INVENTOR

*Harry Norton Marvin*

BY *A. Parker Smith*

*his* ATTORNEY



# UNITED STATES PATENT OFFICE.

HARRY NORTON MARVIN, OF CANASTOTA, NEW YORK, ASSIGNOR TO THE  
AMERICAN MUTOSCOPE COMPANY, OF NEW YORK, N. Y.

## MUTOSCOPE.

SPECIFICATION forming part of Letters Patent No. 584,311, dated June 8, 1897.

Original application filed November 14, 1895, Serial No. 568,897. Divided and this application filed May 26, 1896. Serial No. 593,161. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY NORTON MARVIN, a citizen of the United States, residing at Canastota, in the county of Madison and State of New York, have invented certain new and useful Improvements in Mutoscopes, (Case B;) 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 the construction and operation of a mutoscope.

My object is to produce a device upon which picture-cards are adapted to be mounted and so arranged and operated that by successively and quickly bringing the pictures upon the cards into the line of vision they will embody the changing positions of the object or objects represented on the picture-cards and apparently reproduce to the eyes the movements which those objects are supposed to be making and at various stages of which they have been represented upon the picture-cards; and to that end my invention consists in the several new and novel features and combination of parts hereinafter described and which are specifically set forth in the claims hereunto annexed.

This application (Case B) is a division of my application, Serial No. 568,897, filed November 14, 1895.

The preferred form of my invention is disclosed in the accompanying sheet of drawings, in which—

Figure 1 is a longitudinal sectional view of an apparatus embodying my invention, and Fig. 2 is a perspective view of the same.

Throughout the drawings like reference-figures refer to like parts.

N numeral 1 represents the box or oblong receptacle, in the bottom 2 of which are set a series of picture-cards 3, made of fine bristol-board or similar material, on which are printed or otherwise impressed a series of pictures representing various stages of motion given the object or series of objects.

4 represents a slot or guideway in each side of the box 1 near the upper edge of said side.

5 is a cross-bar or cross-head which may be slid back and forth in the grooves 4.

6 represents the end of an air-tube, having a suitable nozzle which is mounted on the cross-bar 5 and connected by flexible or other tube connection to a mouthpiece. (Not shown.)

The method of operating my invention is as follows: The picture-cards 3 are mounted in the box so as to permit them to bend, as shown in Fig. 1. This bending and recovery of position may be effected by giving the cards the necessary resiliency by any convenient means. The eyes of the observer being in the position indicated in Fig. 1 and the cross-bar 5 being slid along the length of the box as a current of air is sent through the tube 6, either by the observer blowing through the tube or otherwise, the picture-cards are caused to bend over under the pressure of the air and resume their perpendicular position as the nozzle advances beyond them, as shown in the drawings. This exposes to view in rapid succession the series of pictures and produces on the eye the effect of motion by the objects represented in the pictures.

Of course various modifications could be made in the apparatus described—such as the method of mounting the cards in the box, the method of mounting the air-nozzle and moving the same—without departing from the spirit and scope of my invention.

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

1. The combination of a series of picture-cards arranged at regular intervals along a support and means for delivering an air-blast at an angle against said cards, together with means for moving the blast along the series of cards, substantially as described.

2. The combination of a series of picture-cards arranged in a proper receptacle and means for delivering an air-blast at a continuously-shifting point along said series of picture-cards, substantially as described.

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

HARRY NORTON MARVIN.

Witnesses:

HERMAN CASLER,  
THOMAS FORD.