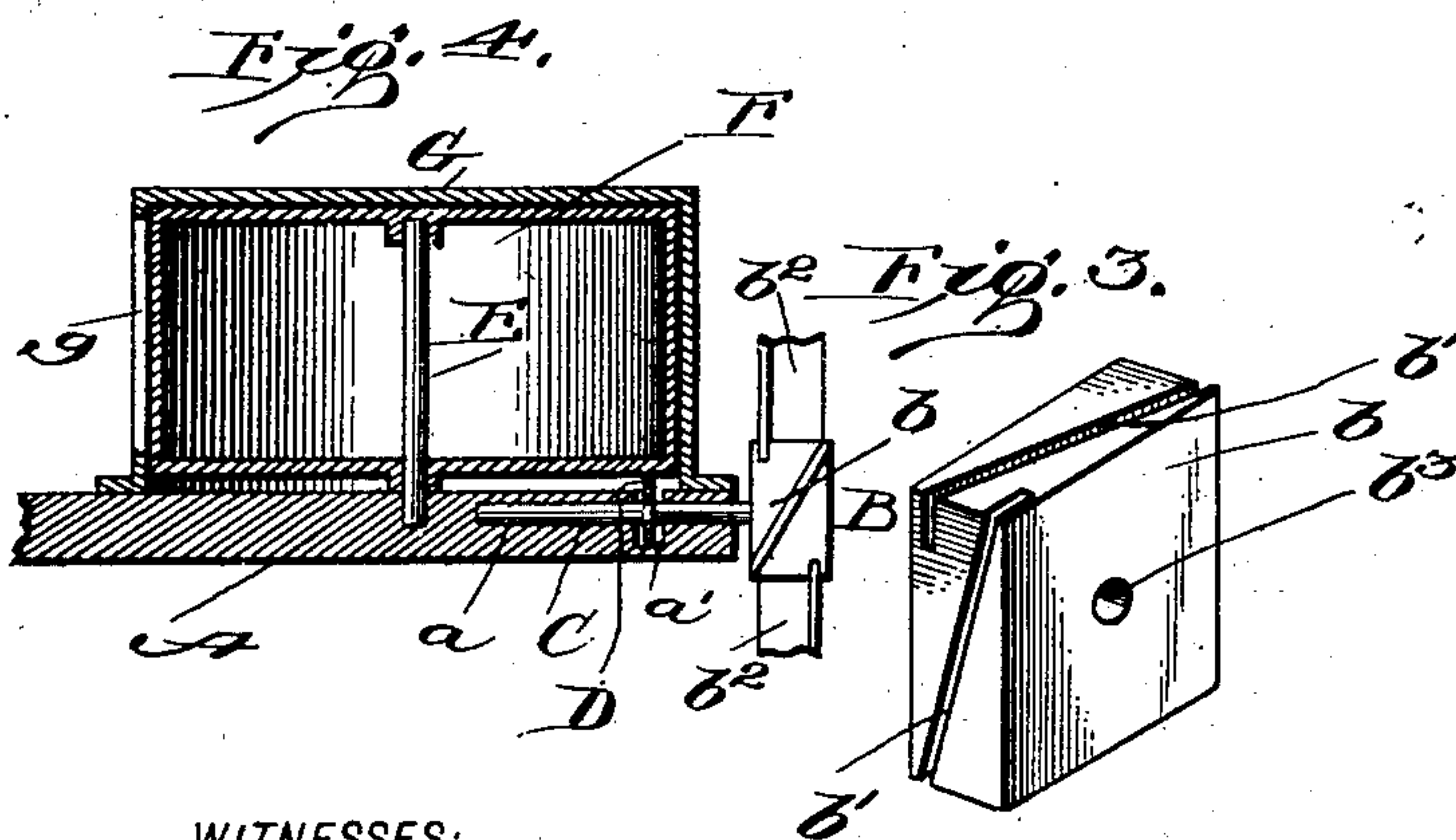
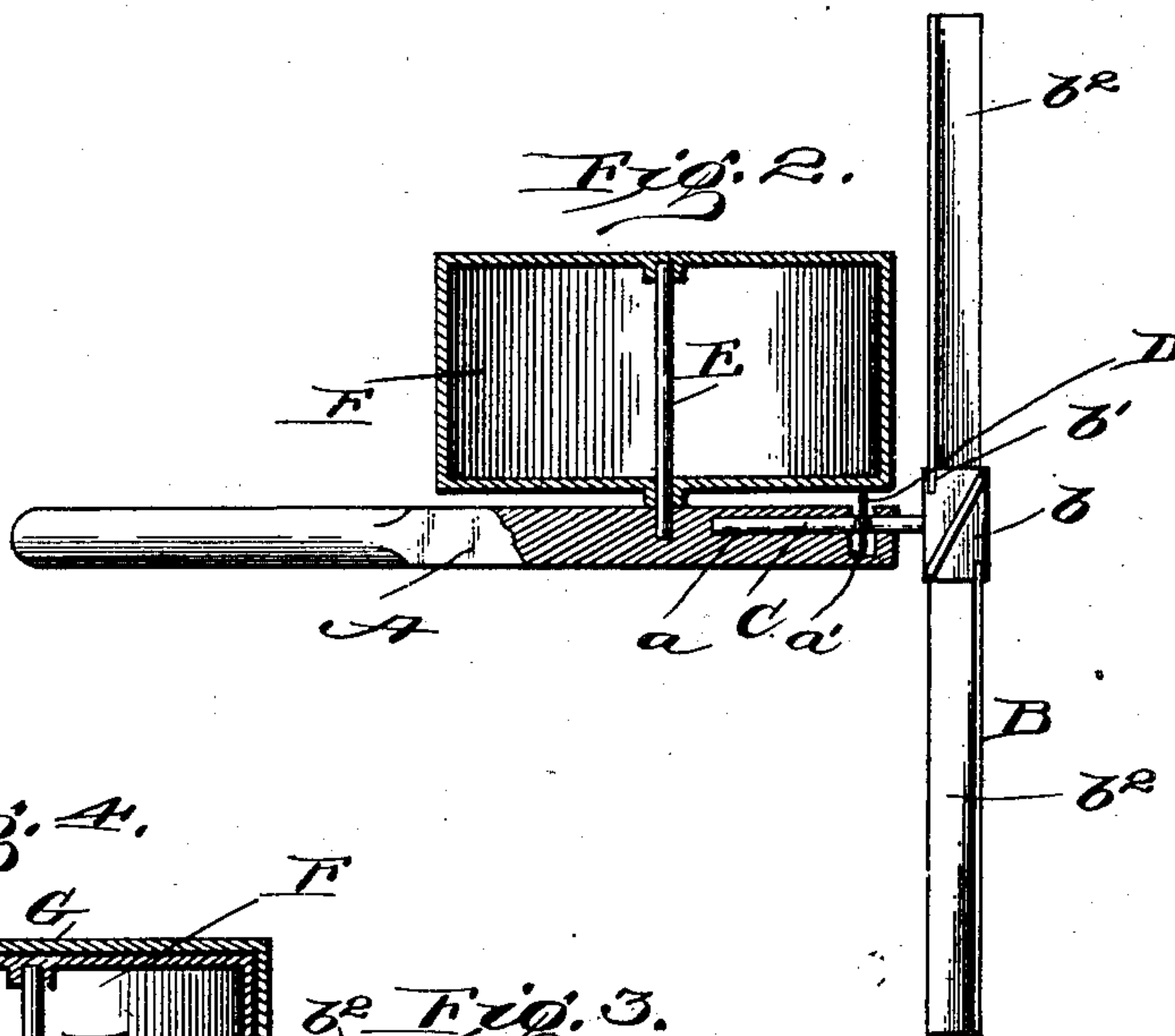
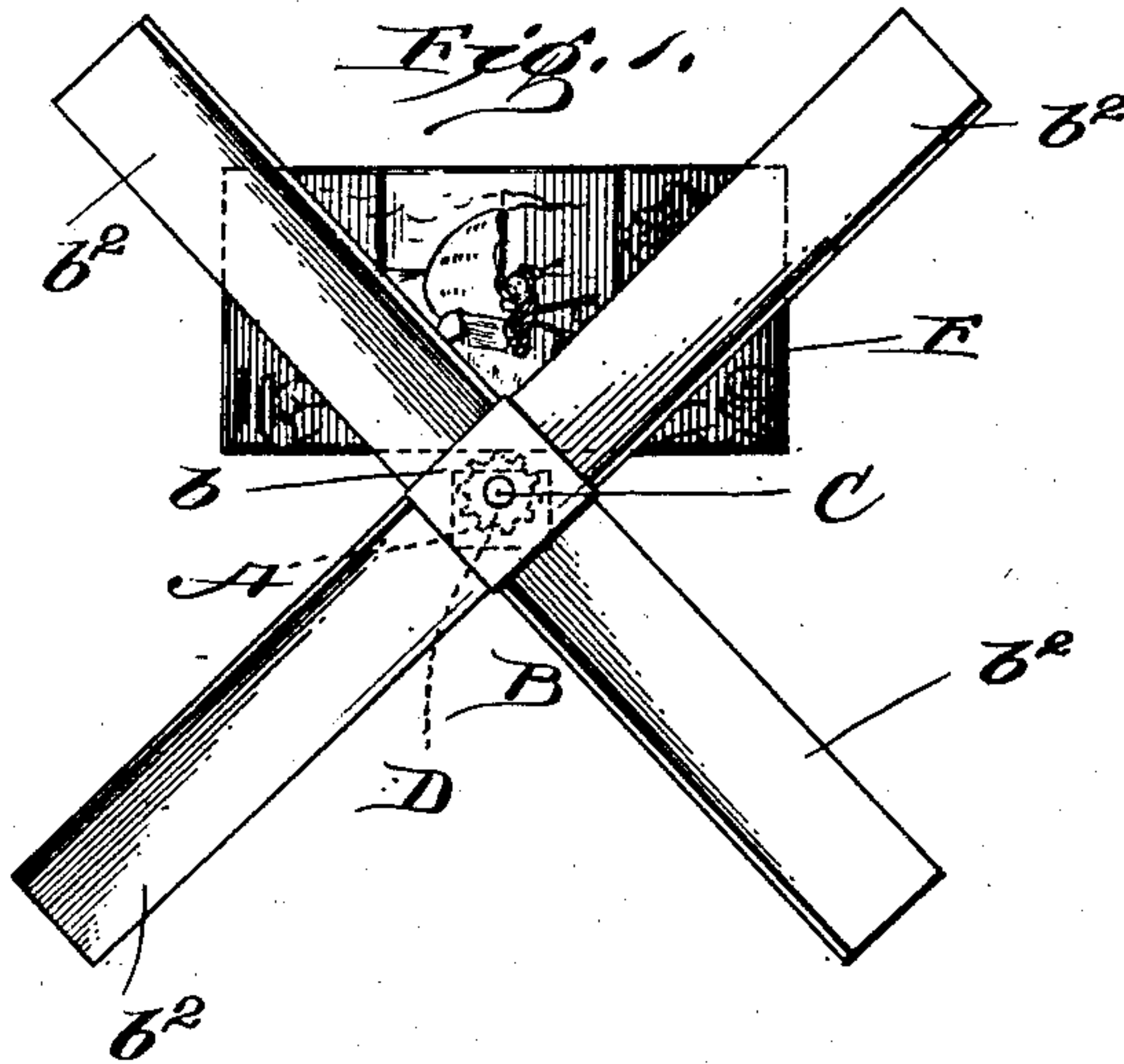


B. SUTTON.  
TOY WIND WHEEL.

APPLICATION FILED FEB. 9, 1903.

NO MODEL.



WITNESSES:

*Robt. W. Tishley.*  
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# UNITED STATES PATENT OFFICE.

BENJAMIN SUTTON, OF PATERSON, NEW JERSEY.

## TOY WIND-WHEEL.

SPECIFICATION forming part of Letters Patent No. 726,371, dated April 28, 1903.

Application filed February 9, 1903. Serial No. 142,582. (No model.)

*To all whom it may concern:*

Be it known that I, BENJAMIN SUTTON, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain  
5 new and useful Improvements in Toy Wind-Wheels, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to toy wind-wheels and to a panoramic device operated by the wind-wheel.

One of the objects of my invention is to produce a wind-wheel that may be cheaply  
15 constructed and that can be quickly put together and may be easily "knocked down."

Another object of my invention is to produce such a wind-wheel and to connect thereto a rotary panoramic device which will be  
20 driven by the rotation of the wind-wheel.

Other objects will appear from the herein-after description.

The invention consists in the novel construction of the hub of the wind-wheel.

25 It also consists in the construction of the wind-wheel in combination with the panoramic device rotated by the wind-wheel, also in the peculiar arrangement and combinations of the parts illustrated in the accompanying drawings and set forth in this specification and particularly pointed out in the  
30 claims at the end thereof.

Referring now to the drawings which form a part of this specification and in which the same reference-letters indicate the same parts in the different views, Figure 1 is a front view of the toy wind-wheel, showing the panorama operated thereby. Fig. 2 is a side view, the panorama and part of the support for the  
40 wheel being shown in section to more clearly show the operative connection between the wheel and panorama. Fig. 3 is a perspective view of the hub of the wheel. Fig. 4 is a vertical section of a modification of the device  
45 illustrated by Fig. 2.

Referring now to the drawings, the part lettered A represents the support or handle on which the wind-wheel and panorama are carried.

50 B represents the wind-wheel.  $b$  is the hub thereof, here shown as a square block, but it may be of any desired shape, on the edge of

which are cut diagonal slots or kerfs  $b'$ , into which the blades  $b^2$ , made of veneer or other light material, are inserted.

55  $b^3$  is a hole in the center of the head through which a pin C is inserted to pivot the wheel to one end of the handle A. This end of the handle is provided with a hole  $a$  to receive the pin and is slotted crosswise at  $a'$  to receive the wheel D, which turns the panorama. As shown, this wheel is provided with teeth on the edge thereof, but this is not necessary. The said wheel is secured to the pin C and  
60 rotates therewith.

E is a vertical pivot pin or rod projecting at right angles to the handle and on which the panorama is pivoted to rotate freely. The panorama is lettered F on the drawings and consists, preferably, of a cylindrical box or  
70 drum, though any other shape may answer my purpose. The outer surface, as shown, is provided with a series of pictures which come into view as the drum is rotated. While I have shown this box closed at the bottom,  
75 I do not intend to limit myself to such a construction, as it is only necessary to construct and arrange the parts so that the wheel D may engage the panorama to turn it when the wind-wheel rotates.

80 The parts just described are assembled as follows: The wheel D is placed in the slot  $a'$  of the handle. The pin C is inserted through the hole  $b^3$  in the hub, the pin being large enough to fit tightly in the hole, so that the  
85 pin and hub will rotate together. The pin is then inserted in the hole  $a$  in the handle through a hole in the center of the wheel D, and the wheel is secured tightly to the pin, so that the two will also turn together. The  
90 pin C fits loosely in the hole  $a$ , so that it will rotate freely therein. The blades  $b^2$  are inserted in the kerfs  $b'$  of the hub. The pin or rod E is now secured to the handle and the panorama-drum is inserted on it, with the  
95 panorama in contact with the driving-wheel D. As thus assembled all the movable parts will turn freely. The wind acting against the blades  $b^2$  will cause the blades to turn around and rotate the pin C, which in turn  
100 will rotate the driving-wheel D and cause the panorama-drum to rotate on its pivot-rod E to successively bring the pictures on the outer surface of the drum to view. In the



modification illustrated by Fig. 4 the panorama-drum is inclosed in a case G, carried by the handle and having an opening *g* therein, through which the pictures on the outer surface of the drum F are seen as they are successively brought in front of the opening.

Various changes may be made in my invention without departing from the spirit thereof. I do not, therefore, intend to limit myself to the exact construction here illustrated and described.

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

15 1. In a toy wind-wheel, a hub having diagonal grooves therein, blades inserted in said grooves, a handle having a recess near one end thereof, a pin connecting the hub to the handle, and a wheel mounted in said recess and on said pin.

2. In a toy wind-wheel, a handle, a hub, consisting of a block having diagonal grooves therein, blades inserted in said grooves, a pivot-pin connecting the hub to the handle, a rotating device mounted on and carried by said handle and connections between said device and said hub whereby upon the rotating of the hub the said device will also be rotated.

30 3. In a toy wind-wheel, a handle, a hub

consisting of a square block having diagonal grooves formed in each edge thereof, wind-blades inserted in said grooves, a pin connecting the hub to the handle, said pin adapted to rotate in said handle, a wheel carried by and rotating with said pin, a rod carried by the handle, a drum carrying on the outside thereof pictures, said drum adapted to rotate on said rod, said drum being in contact with said wheel and adapted to rotate on said rod when the hub is rotated.

4. In a toy wind-wheel, a handle, a hub consisting of a square block having diagonal grooves therein, wind-blades fitted in said grooves, a pin on which the hub is secured, said pin adapted to rotate in the handle, a wheel secured to the pin, a rod secured on the handle, a drum mounted to rotate on said rod and to be engaged by said wheel, having on the outside thereof pictures, a case surrounding said drum and secured to the handle, said case having an opening thereon through which the pictures on the drum may be seen in succession as the drum is rotated.

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

BENJAMIN SUTTON.

Witnesses:

H. M. SEAMANS,  
I. C. DELANEY.