

No. 704,163.

Patented July 8, 1902.

R. WILSON.  
CIGAR OR CIGARETTE LIGHTING DEVICE.

(Application filed Nov. 5, 1901.)

(No Model.)

2 Sheets—Sheet 1.

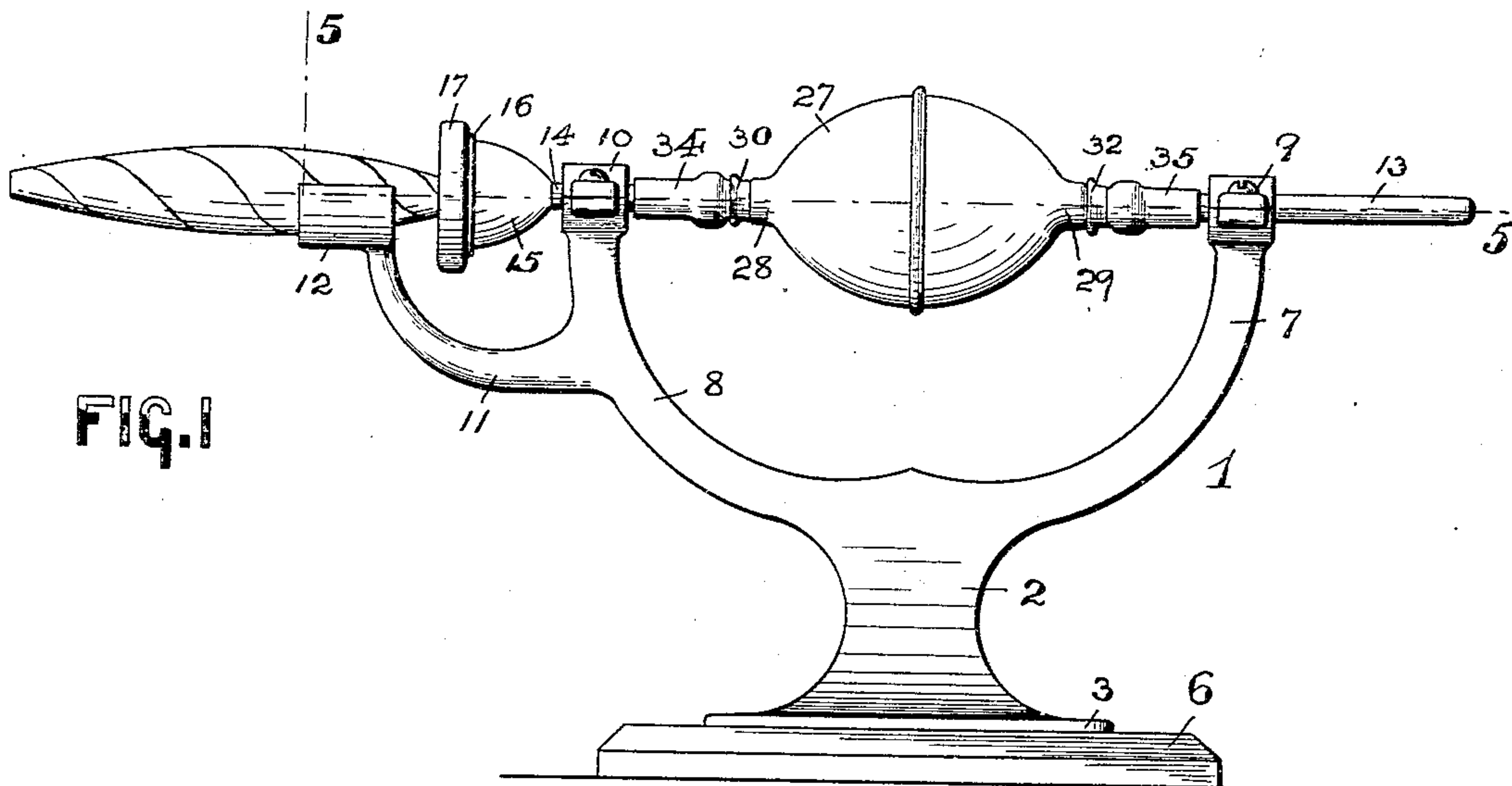


FIG. 1

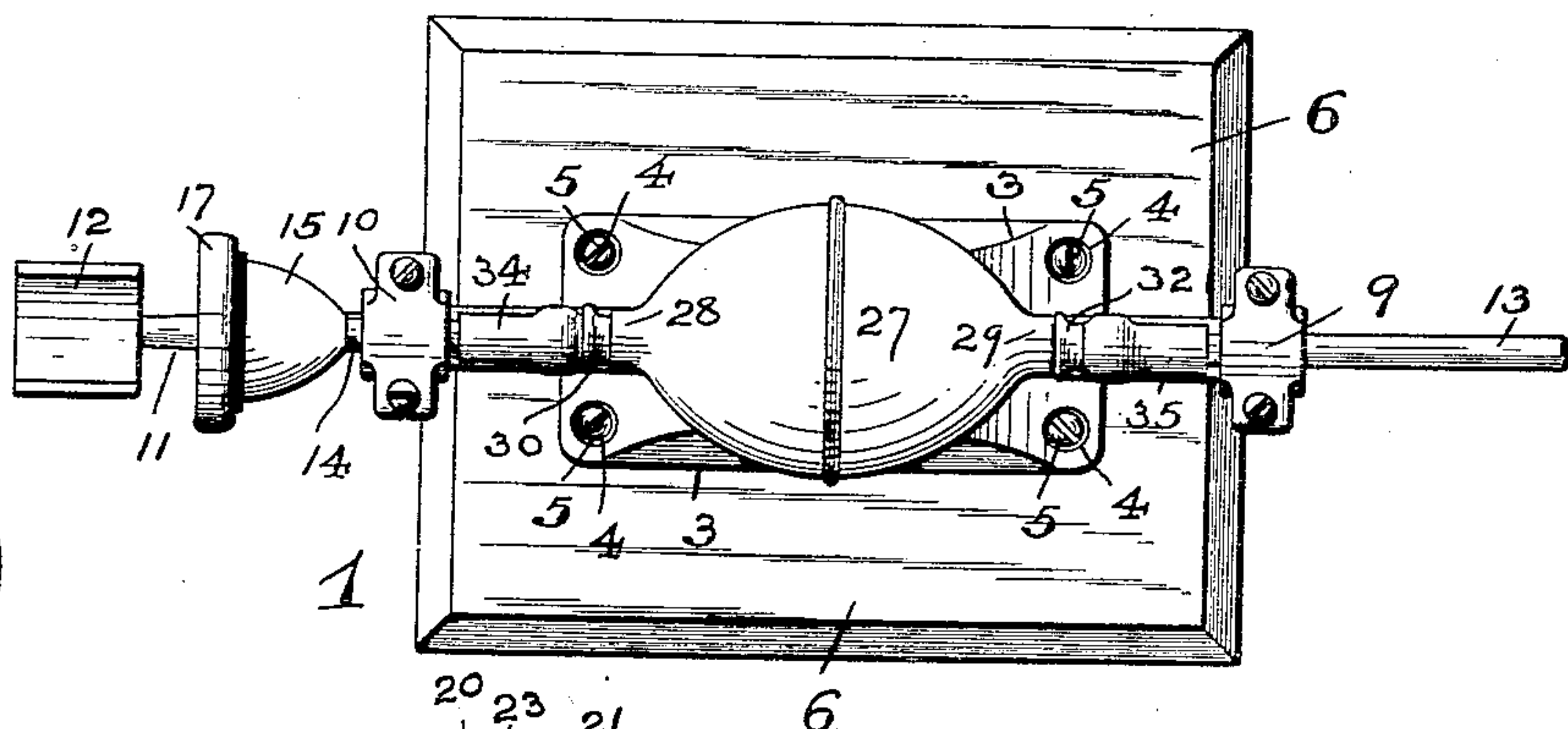


FIG. 2

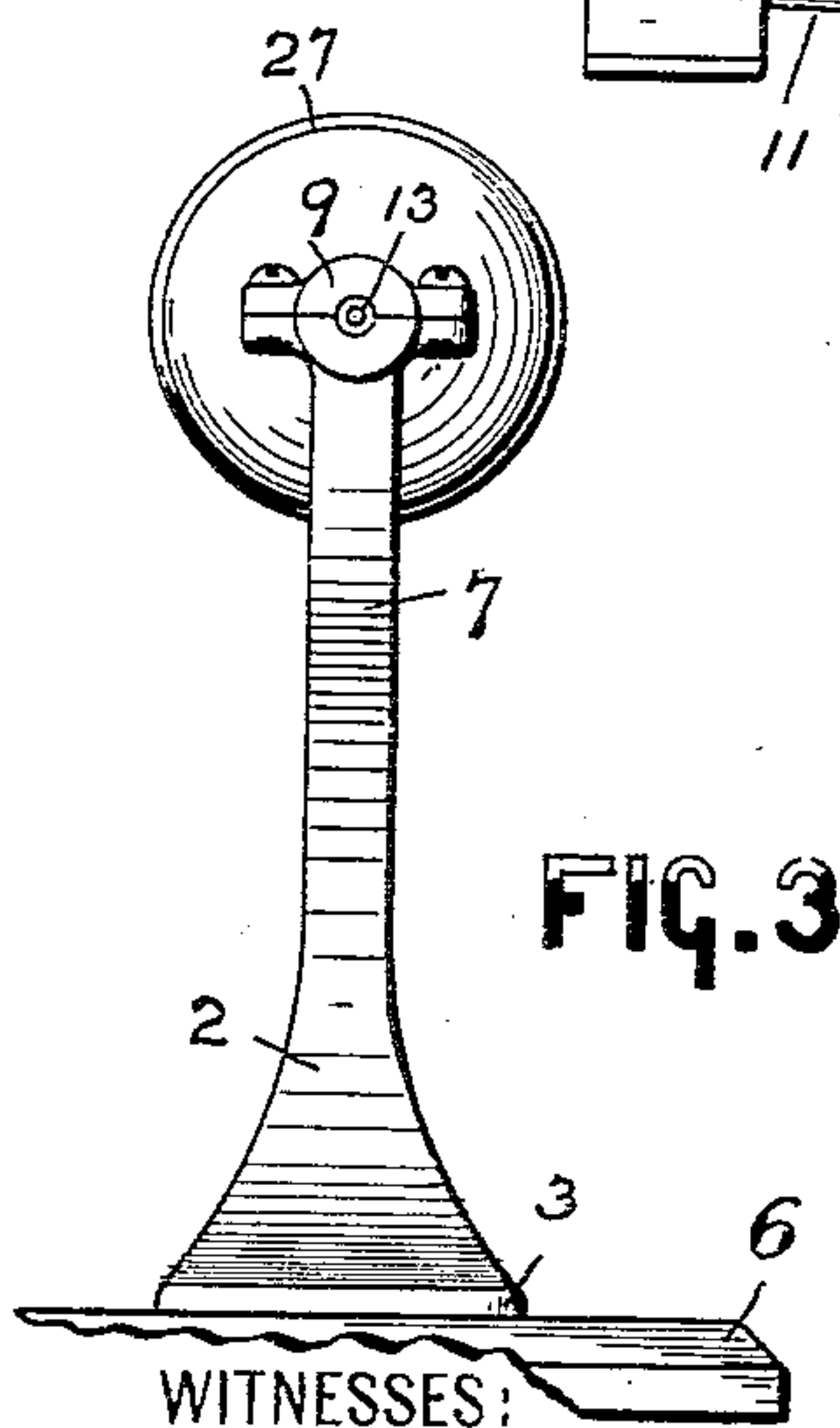


FIG. 3

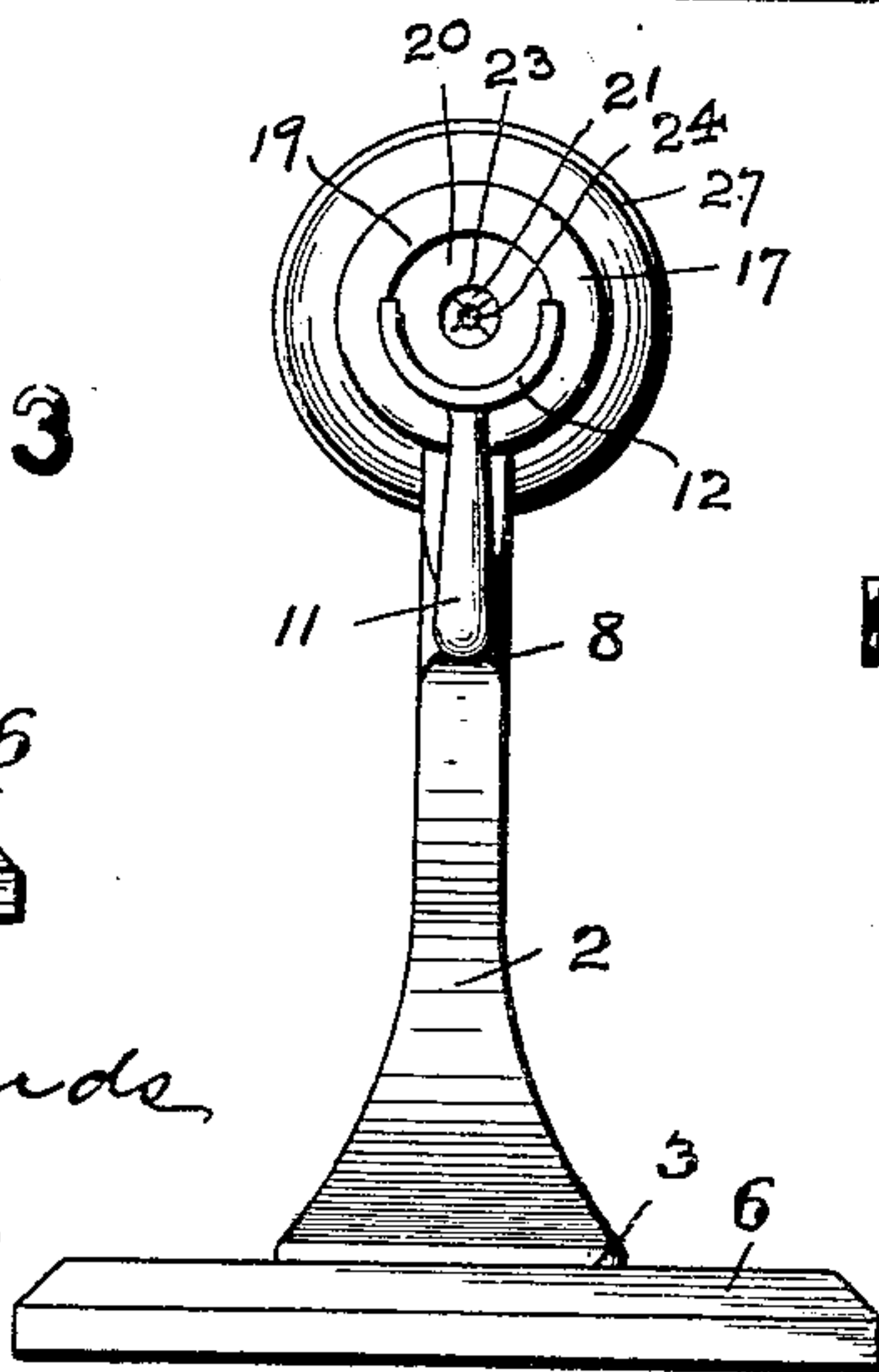


FIG. 4

WITNESSES:  
*Geo. S. Richards*  
*W. B. Fraentzel*

INVENTOR:  
**ROBERT WILSON,**  
BY  
*Fred C. Fraentzel,*  
ATTORNEY

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2 Sheets—Sheet 2.

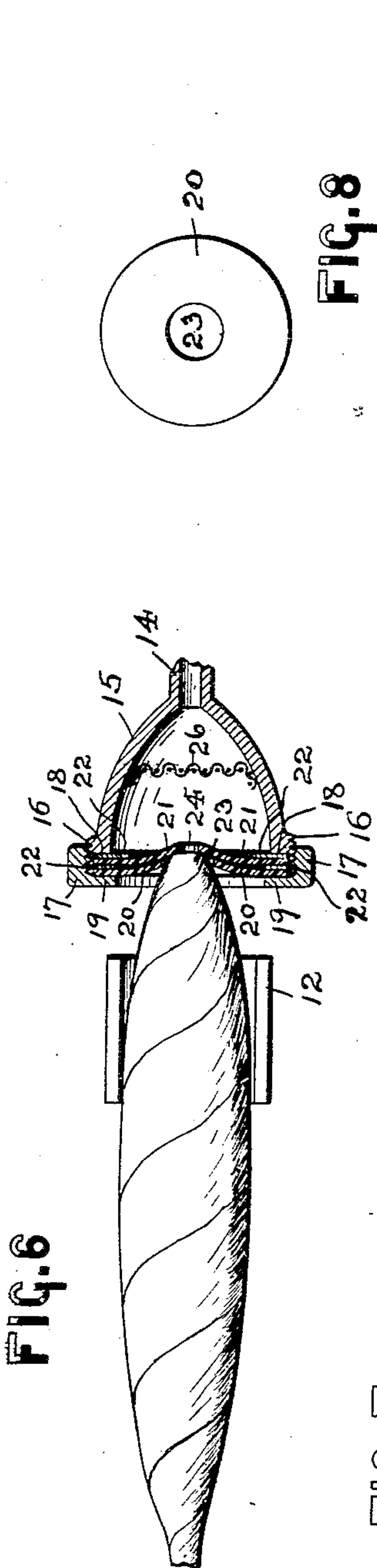


FIG. 6

WITNESSES:

*Geo. S. Richards.*  
*M. B. Fraentzel.*

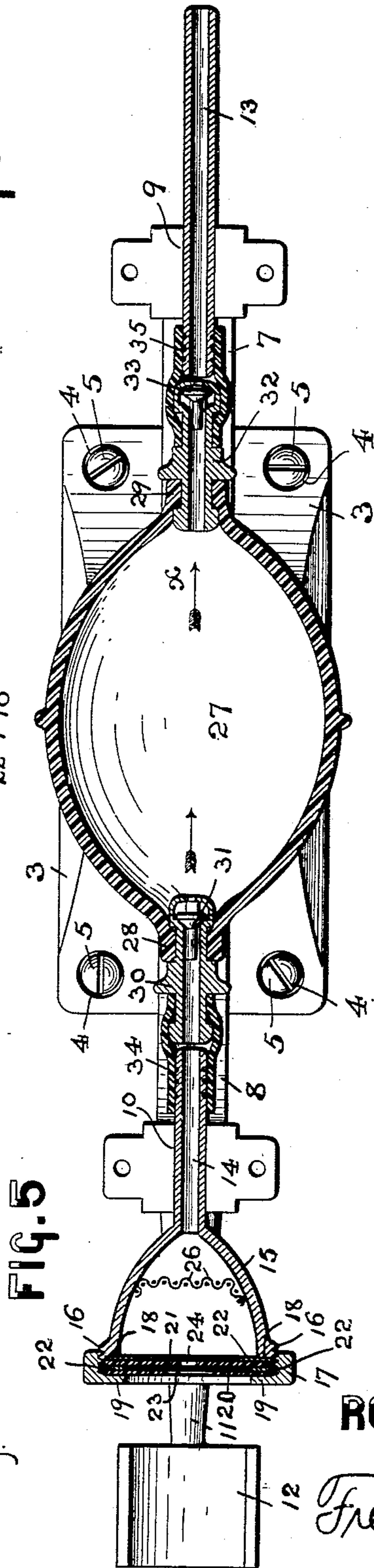


FIG. 5

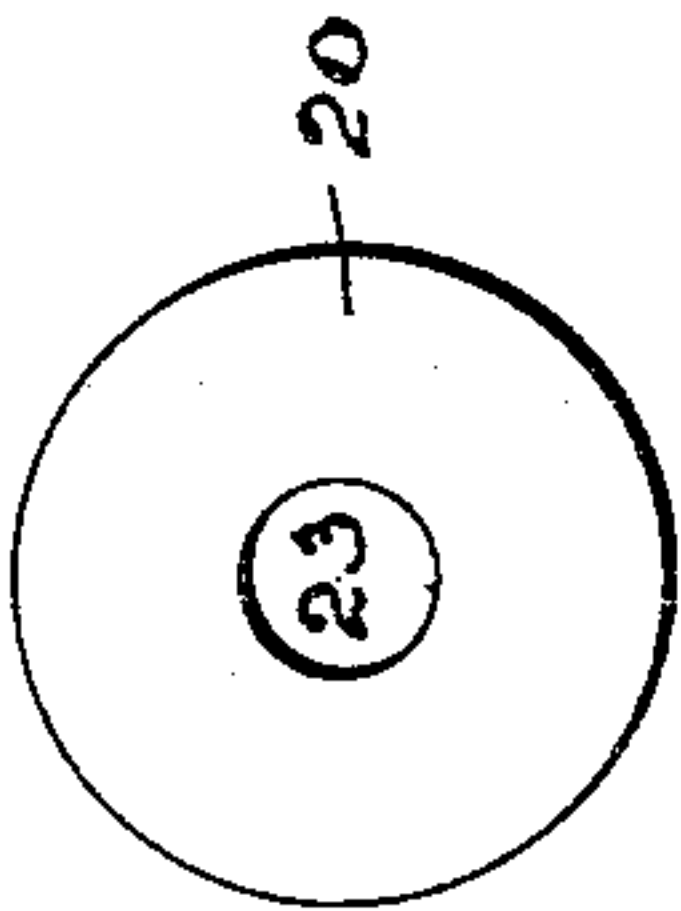


FIG. 8

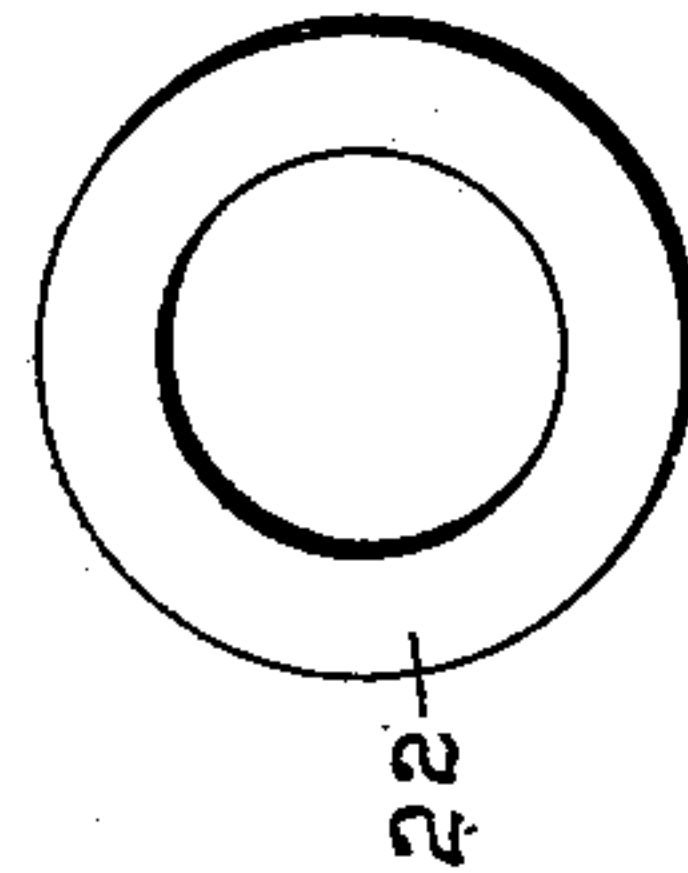


FIG. 10

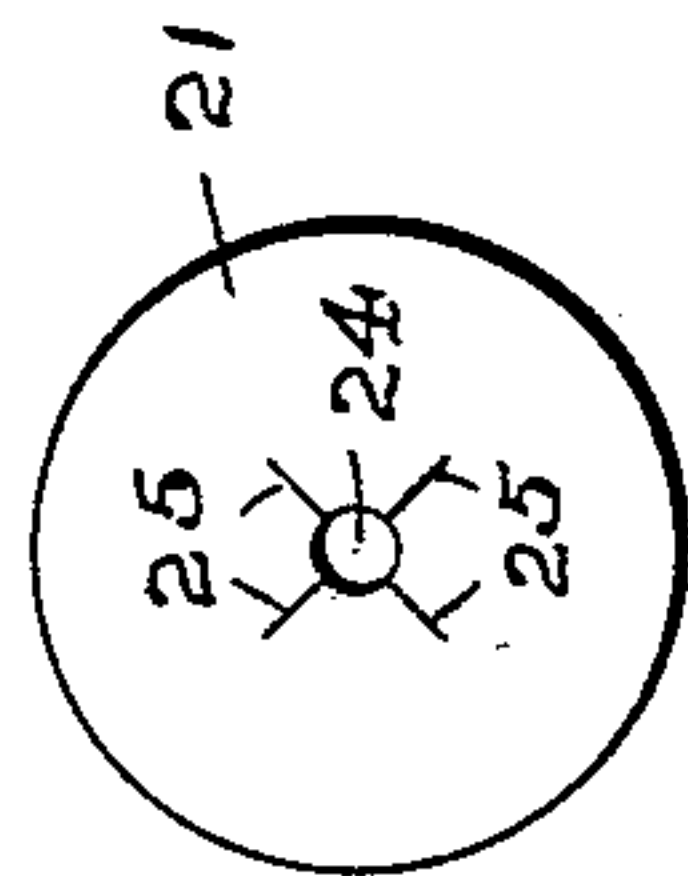


FIG. 9

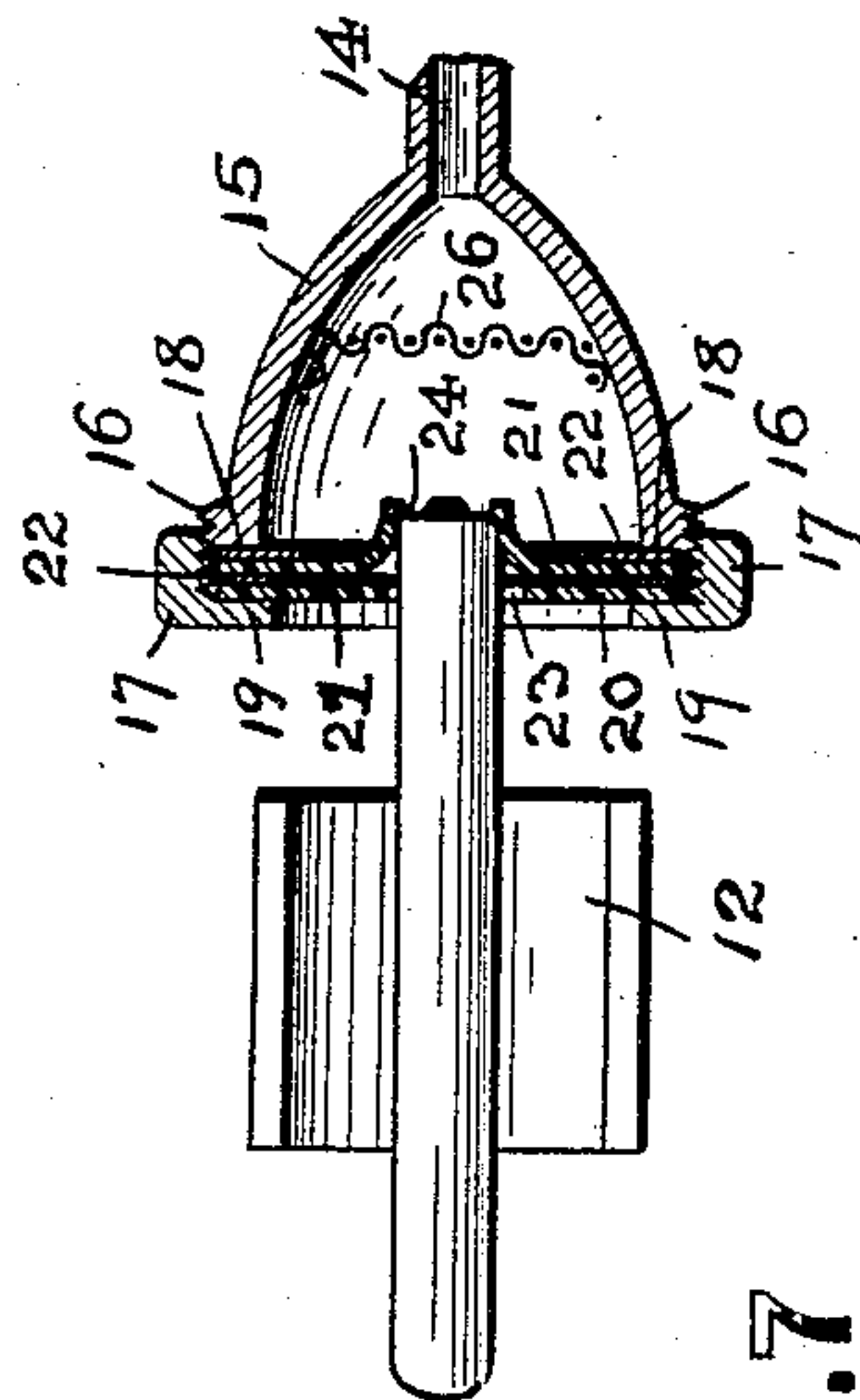


FIG. 7

INVENTOR:

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# UNITED STATES PATENT OFFICE.

ROBERT WILSON, OF NEWARK, NEW JERSEY, ASSIGNOR TO WILLIAM WALKER, OF NEWARK, NEW JERSEY.

## CIGAR OR CIGARETTE LIGHTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 704,163, dated July 8, 1902.

Application filed November 5, 1901. Serial No. 81,212. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT WILSON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Cigar or Cigarette Lighting Devices; 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, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

15 This invention has reference to a novel device in the form of a pneumatic cigar or cigarette lighter; and the invention has for its principal purposes the production of a simple and cheaply-constructed device which can be used as an ornament on the counter of a store and in which device the cigarette or cigar which is to be lighted is placed upon a shelf, and by means of a pneumatic bulb or the like air is drawn through the body of the cigarette or cigar in the manner of a person drawing on the end of the cigarette or cigar, thereby causing the proper and careful ignition of the end of the cigarette or cigar when a light is applied to the same.

30 The invention consists, essentially, in the novel cigar or cigarette lighting device hereinafter fully set forth; and, furthermore, this invention consists in the various novel arrangements and combinations of the several parts of the device, as well as in the details of the construction thereof, all of which will be more particularly described in the following specification, and then finally embodied in the clauses of the claim.

40 The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of the device embodying the principles of this invention, and Fig. 2 is a top or plan view of the same. Figs. 3 and 4 are the two end views of the device. Fig. 5 is a horizontal section of the device on an enlarged scale, the said section being taken on line 5 5 in Fig. 1 of the drawings. Figs. 6 and 7 are detail views of the shelf and end portion of the main part of the device, to which is connected, as in Fig. 6,

the cut or severed end of a cigar which is to be lighted and, as in Fig. 7, the end of a cigarette, which is to be lighted. Figs. 8 and 9 are face views of a pair of perforated and flexible disks, made of rubber or any other suitable material, which are used with the device, and Fig. 10 is a similar view of a reinforcing ring or gasket.

Similar characters of reference are employed in all of the said above-described views to indicate corresponding parts.

In the said drawings the reference character 1 indicates the complete device, which consists, essentially, of a suitable standard 2, formed with a base 3, having holes or perforations 4 and screws or pins 5, by means of which said base may be secured upon a support, as 6, (see Figs. 1 and 2,) or upon a table or counter or against a side wall, if desired. The said standard 2 is also provided with a pair of upwardly-extending arms 7 and 8, respectively, provided at their free ends with suitably-constructed bearings 9 and 10. Connected with the said arm 8 is a bracket-like member or arm 11, which is formed at its free end with a concave shelf or support 12. Suitably arranged and held in the bearing 9 is an induction-tube 13 and in the bearing 10 is an induction-tube 14, the said tube 14 being provided with an enlarged and funnel-shaped member 15, which is formed with a screw-thread 16 at its outer edge for the reception of an internally-screw-threaded ring 17. This ring 17 is employed for securing between the marginal edge 18 of the member 15 and a flange 19 of said ring 17 a pair of rubber or other flexible disks 20 and 21, the said disks 20 and 21 being preferably separated by a reinforcing ring or gasket 22. A second reinforcing ring or gasket 22 may also be placed between the said disk 21 and the marginal surface 18 of the member 15, all of which is clearly illustrated in Figs. 5, 6, and 7. The said disk 20 is provided with a central hole or perforation 23, and the disk 21 is also provided with a central hole or perforation 24; but this hole 24 is made much smaller than the hole 23 in the disk 20 for the purpose to be hereinafter fully described. The said disk 21 is also preferably formed with slits 25, which extend radially from the



said hole 24 into the surrounding body of the said disk 21, as clearly illustrated in Fig. 9. Within the said enlarged and funnel-shaped member 15 of the induction-tube 14 may be arranged in any well-known manner a suitable screen, as 26, which serves to prevent any particles of the tobacco or the dust therefrom, when the device is used with the pneumatic bulb 27 in the manner to be presently described, from passing beyond the screen. The said pneumatic bulb 27 is preferably a rubber bulb, such as is used in connection with syringes, the same being provided with an inlet 28 and an outlet 29. Connected with the said inlet 28 is any well-known construction of valve-casing 30 and an induction-valve 31 therein, and similarly connected with the outlet 29 is a suitable valve-casing 32, which is provided with an eduction-valve 33. The valve-casing 30 is connected with the end of the induction-tube 14 in any suitable manner, preferably by means of a piece of flexible tubing 34, and the valve-casing 32 is also suitably connected, preferably by means of a piece of flexible tubing 35, with the inner end of the tubing 13.

When all the said devices and parts have been assembled in the manner hereinabove set forth and as clearly illustrated in the several figures of the drawings, then the device is ready for the ignition of the ends of cigars or cigarettes in the following manner: Suppose it is desired to light the end of a cigar. The body of the cigar is placed upon the concave shelf or support 12, as shown, and the cut or severed end of the cigar is forced into and through the central opening 23 in the disk 20, as clearly illustrated in Fig. 6 of the drawings. When a lighted match or other light is applied to the opposite end of the cigar and the bulb 27 is compressed, then the air within said bulb is forced in the direction of the arrow *x* through the valve-casing 32 into the outlet-tube 13, and a vacuum is created in the funnel-shaped member 15 and the tube 14. As soon as the pressure is released from the bulb 27 the valve 33 closes and valve 31 opens, and a suction of air is easily created through the entire body of the cigar, the funnel-shaped member 15 and tube 14, and the interior of the expanding-bulb 27, whereby the flame which has been applied to the end of the cigar perfectly ignites the tobacco and the cigar is ready for the smoke.

In order that the device 1 may be used for the lighting of small cigars, such as all-tobacco cigarettes or the ordinary cigarettes, I have provided the second disk 21 with the small hole 24 and the slits 25 to enable the end of the cigarette to be properly inserted and securely held by its engagement with the slitted portions of the said disk 21, as clearly illustrated in Fig. 7 of the drawings. The free end of the cigarette or small cigar can then be ignited in precisely the same manner as hereinabove stated.

From the above description of my present invention it will be clearly evident that I have devised a simple and effective device of the character hereinabove described, which, aside from its novelty as a cigar or cigarette lighting attachment, can be put to other uses, such as an advertising medium, by the application of a card on which is advertised a certain brand of cigars, &c., the card being attached directly to the standard 2 or other suitable part of the device.

I am fully aware that changes may be made in the various arrangements and combinations of the several parts, as well as in the details of the construction thereof, without departing from the scope of my invention. Hence I do not limit my invention to the exact arrangements and combinations of the parts as described in the previous specification and as illustrated in the accompanying drawings, nor do I confine myself to the exact details of the construction of any of the said parts.

Having thus described my invention, what I claim is—

1. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a compressible air-bulb, an induction-valve at one end of said bulb, and an eduction-valve at the other end of said bulb, an eduction-tube connected with said eduction-valve, an induction-tube connected with the casing of said induction-valve, a funnel-shaped member on said induction-tube, and a perforated disk in said funnel-shaped member, all arranged for receiving the end of a cigar or cigarette and causing a suction of air through the same, substantially as and for the purposes set forth.

2. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a compressible air-bulb, an induction-valve at one end of said bulb, and an eduction-valve at the other end of said bulb, an eduction-tube connected with said eduction-valve, an induction-tube connected with the casing of said induction-valve, a funnel-shaped member on said induction-tube, provided with a screw-thread, a screw-ring thereon, and a pair of perforated disks in said funnel-shaped member, the perforation in the one disk being larger than the perforation in the other disk, all arranged for receiving the end of a cigar or cigarette and causing a suction of air through the same, substantially as and for the purposes set forth.

3. In a cigar or cigarette lighting device, the combination, with a standard having a pair of upwardly-extending arms, and a bearing on each arm, of a support on one of said arms provided with a shelf for the arrangement thereon of a cigar or cigarette, a compressible air-bulb supported by the said bearings, and means connected therewith for caus-



ing a suction of air through the cigar or cigarette, substantially as and for the purposes set forth.

4. In a cigar or cigarette lighting device, the combination, with a standard having a pair of upwardly-extending arms, and a bearing on each arm, of a support on one of said arms provided with a shelf for the arrangement thereon of a cigar or cigarette, a compressible air-bulb supported by the said bearings, an induction-valve at one end of said bulb, and an eduction-valve at the other end of said bulb, and a means of communication with the casing of said induction-valve for causing a suction of air through the cigar or cigarette, substantially as and for the purposes set forth.

5. In a cigar or cigarette lighting device, the combination, with a standard having a pair of upwardly-extending arms, and a bearing on each arm, of a support on one of said arms provided with a shelf for the arrangement thereon of a cigar or cigarette, a compressible air-bulb supported by the said bearings, an induction-valve at one end of said bulb, and an eduction-valve at the other end of said bulb, an eduction-tube connected with said eduction-valve, an induction-tube connected with the casing of said induction-valve, a funnel-shaped member on said induction-tube, and a perforated disk in said funnel-shaped member, all arranged for receiving the end of a cigar or cigarette and causing a suction of air through the same, substantially as and for the purposes set forth.

6. In a cigar or cigarette lighting device, the combination, with a standard having a pair of upwardly-extending arms, and a bearing on each arm, of a support on one of said arms provided with a shelf for the arrangement thereon of a cigar or cigarette, a compressible air-bulb supported by the said bearings, an induction-valve at one end of said bulb, and an eduction-valve at the other end of said bulb, an eduction-tube connected with said eduction-valve, an induction-tube connected with the casing of said induction-valve, a funnel-shaped member on said induction-tube, provided with a screw-thread, a screw-ring thereon, and a pair of perforated disks in said funnel-shaped member, the perforation in the one disk being larger than the perforation in the other disk, all arranged for receiving the end of a cigar or cigarette and causing a suction of air through the same, substantially as and for the purposes set forth.

7. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a means for creating a suction and an induction-tube connected therewith, a funnel-shaped member on one

end of said tube, a perforated flexible disk in said funnel-shaped member adapted to receive the end of a cigar or cigarette in its perforation, and means for securing said disk in position, substantially as and for the purposes set forth.

8. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a means for creating a suction and an induction-tube connected therewith, a funnel-shaped member on one end of said tube, a perforated flexible disk in said funnel-shaped member adapted to receive the end of a cigar or cigarette in its perforation, means for securing said disk in position, and a screen in said funnel-shaped member, substantially as and for the purposes set forth.

9. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a means for creating a suction and an induction-tube connected therewith, a funnel-shaped member on one end of said tube, a pair of perforated flexible disks in said funnel-shaped member, the perforation in one of said disks being larger than the perforation in the other disk, and means for securing said disks in position, substantially as and for the purposes set forth.

10. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a means for creating a suction and an induction-tube connected therewith, a funnel-shaped member on one end of said tube, a pair of perforated flexible disks in said funnel-shaped member, the perforation in one of said disks being larger than the perforation in the other disk, means for securing said disks in position, and a screen in said funnel-shaped member, substantially as and for the purposes set forth.

11. In a cigar or cigarette lighting device, the combination, with a means of support for the cigar or cigarette, of a means for creating a suction and an induction-tube connected therewith, a funnel-shaped member on one end of said tube, a pair of perforated flexible disks in said funnel-shaped member, the perforation in one of said disks being larger than the perforation in the other disk, and the disk which is provided with the smaller perforation being formed with radially-extending slits, and means for securing said disks in position, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 2d day of November, 1901.

ROBERT WILSON.

Witnesses:

FREDK. C. FRAENTZEL,  
GEO. D. RICHARDS.