

No. 683,589.

Patented Oct. 1, 1901.

W. F. BARRY.  
INSUFFLATOR.

(Application filed July 8, 1901.)

(No Model.)

Fig. 1.

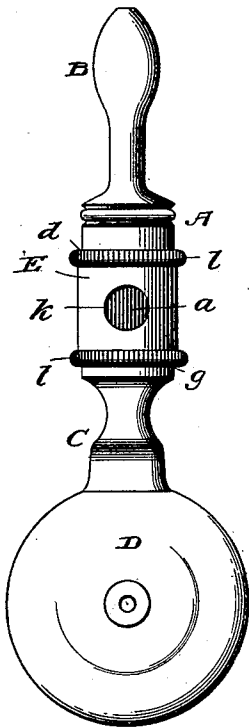


Fig. 2.

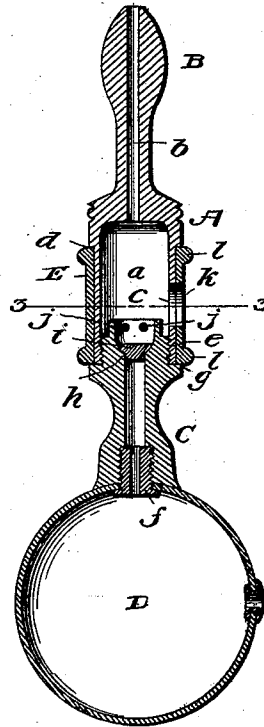


Fig. 3.

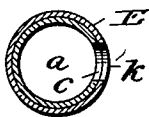
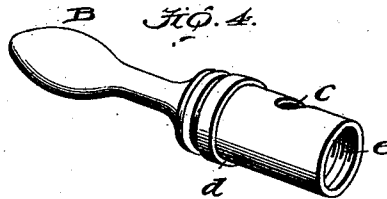


Fig. 4.



Witnesses

*Wm. J. Ashieen*  
*N. C. Healy*

Inventor

*William F. Barry*  
by *James J. Sheehy*  
Attorney

# UNITED STATES PATENT OFFICE.

WILLIAM F. BARRY, OF WOONSOCKET, RHODE ISLAND, ASSIGNOR OF ONE-THIRD TO GEORGE W. BUNNELL, JR., OF PROVIDENCE, RHODE ISLAND.

## INSUFFLATOR.

SPECIFICATION forming part of Letters Patent No. 683,589, dated October 1, 1901.

Application filed July 5, 1901. Serial No. 87,179. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM F. BARRY, M. D., a citizen of the United States, residing at Woonsocket, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Insufflators, of which the following is a specification.

My invention relates to improvements in that class of powder insufflators or injectors which comprise a chamber or reservoir for powder, an elastic bulb connected with one end of said chamber or reservoir, and a nozzle connected with the other end thereof.

It consists in a certain peculiar insufflator designed more particularly for injecting powder into the male urethra with a view of promoting the cure of all discharges of the male generative organs, and one which is a material simplification of the insufflator disclosed in my Letters Patent No. 660,042, of October 16, 1900, and is so compact as to admit of its being conveniently carried in the pocket.

With the foregoing in mind the invention will be fully understood from the following description and claim, when taken in conjunction with the annexed drawings, in which—

Figure 1 is a plan view of my improved insufflator, the same being shown with the powder chamber or reservoir closed. Fig. 2 is a longitudinal central section of the same with the chamber or reservoir shown as open. Fig. 3 is a transverse section taken in the plane indicated by the line 3 3 of Fig. 2, and Fig. 4 is a perspective view of the integral body and nozzle of the insufflator.

Referring by letter to the said drawings, A is the body, B the nozzle, C the tubular section, and D the elastic bulb, of the improved device. The body and nozzle are made in one piece of hard rubber or other suitable hard material, and in the former is a chamber or reservoir *a*, with one end of which communicates a bore *b* in the nozzle, as shown. Exteriously the body is of circular form in cross-section, and it is provided with a filling-aperture *c*, an exterior shoulder *d*, located between the filling-aperture and the nozzle, and interior threads *e*, located at the opposite side of the filling-aperture with reference to the shoulder *d*, as shown. The tubular section C is also of hard rubber or

other suitable hard material and is interiorly threaded at its outer end to receive a threaded nipple *f*, connected to the elastic bulb D, as shown. Adjacent to its inner end said tubular section is exteriorly threaded, so as to screw into the threaded end of the body A, and in rear of its said threaded portion it is provided with a shoulder *g*, which abuts against the end of body A and extends outwardly beyond the outer side of said body, as illustrated, for a purpose presently described. Interiorly the tubular section is provided with a valve-seat *h*, a non-return valve *i*, and retaining devices *j* for preventing displacement of the latter.

E is a rotatable band, of hard rubber or other suitable material, which is mounted on the body A and is interposed between and held against endwise displacement by the shoulder *d* of said body and the shoulder *g* of the tubular section C. This band is provided with an aperture *k*, designed to register with the aperture *c* in the body, and is also provided with milled or roughened end portions *l* to adapt it to be readily rotated. When the band E is rotated to register its aperture *k* with the aperture *c* in body A, access is afforded to the chamber or reservoir *a*, and said chamber or reservoir may be conveniently filled with powder, while when said band is rotated to carry its aperture away from the aperture *c* said aperture is tightly closed and escape of powder therethrough is precluded.

The compactness of my improved insufflator admits of its being conveniently carried in the pocket, and the nozzle B, rigid on the body A, especially adapts it to the specific purpose stated. The insufflator is also advantageous because of its simplicity and cheapness and the facility with which the parts may be assembled and disconnected, it being simply necessary when it is desired to clean the chamber or reservoir *a*, for instance, to turn the tubular section C out of engagement therewith. When the said tubular section is thus disconnected, the band E may be readily drawn off the body A to facilitate cleaning of the outside of the body as well as the inside of the band.

The injector is used in the usual manner—*i. e.*, the end nozzle is placed in the urethra

or other cavity to be treated and the bulb is compressed and permitted to expand alternately, thereby forcing air laden with the powder contained in the insufflator into the  
5 canal or organ and depositing the powder over the membrane lining said canal or organ.

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

10 The insufflator described comprising the body formed of hard material and having the chamber or reservoir, the filling-aperture in the wall thereof, the exterior shoulder *d*, and the interiorly-threaded inner end; said body  
15 being exteriorly of circular form in cross-section, the rigid nozzle formed integral with the body and having a bore in communication with the chamber thereof, the elastic bulb, the tubular section connected to the

bulb and having the exteriorly-threaded portion screwed into the threaded end of the body, and also having the shoulder *g* abutting against the inner end and extending outwardly beyond the outer side of the body, and a rotatable band mounted on and snugly fitting the body and interposed between the shoulder *d* of said body and the shoulder *g* of the tubular section, and having an aperture adapted to coincide with the aperture in the body. 20  
25  
30

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM F. BARRY.

Witnesses:

EDGAR L. SPAULDING,  
THOMAS E. TURPIN.