

(No Model.)

S. MEREN.
INSECT POWDER BLOWER.

No. 536,732.

Patented Apr. 2, 1895.

Fig: 1.

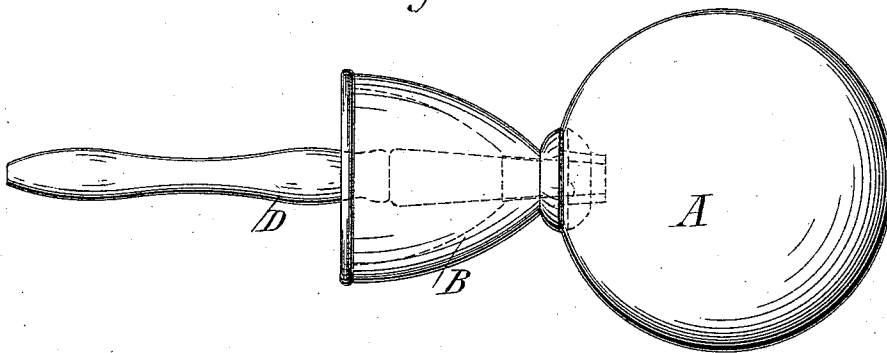


Fig: 2.

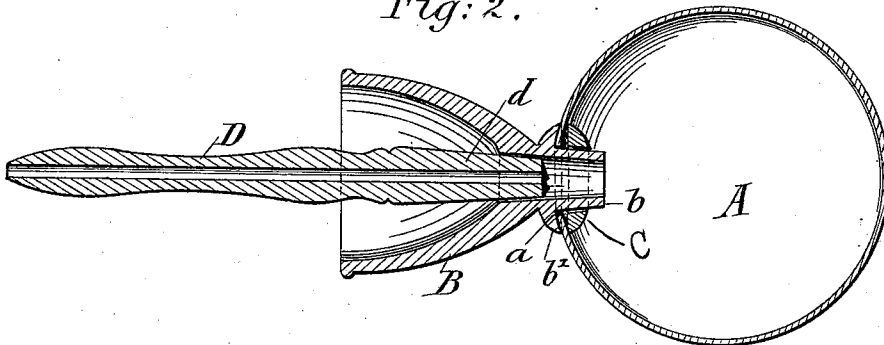
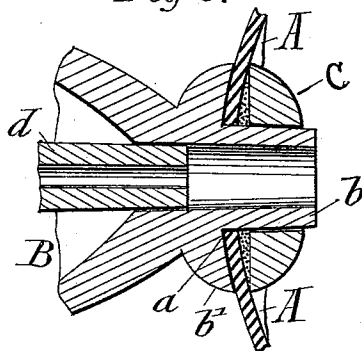


Fig: 3.



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INSECT-POWDER BLOWER.

SPECIFICATION forming part of Letters Patent No. 536,732, dated April 2, 1895.

Application filed December 18, 1894. Serial No. 532,184. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY MEREN, a subject of the Czar of Russia, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Insect-Powder Blowers, of which the following is a specification.

My invention relates to an improvement in insect-powder blowers, and the object of the same is to provide a durable, simple and convenient attachment for the filling funnel in which the nozzle is inserted, with the elastic bulb; and to these ends my invention consists of an elastic bulb having an opening in which the nipple of a filling funnel in which the nozzle is retained is inserted, said nipple receiving from the inside of the bulb a retaining-ring previously placed in the bulb and having a suitable amount of glue properly applied thereto, so as to firmly connect it with the nipple.

In the accompanying drawings,—Figure 1 is a side-elevation of my improved insect-powder blower. Fig. 2 is a longitudinal section of the same, and Fig. 3 is an enlarged detail-section, showing more clearly the connection between the nipple of the funnel, the bulb and the retaining-ring.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A indicates the elastic bulb of spherical shape which is adapted to contain a suitable supply of insect-powder, and is provided with an opening *a* into which is inserted the nipple *b* of a funnel B, which is provided at a point intermediate of the nipple and the main-body of the funnel, with an annular flange *b'* that is adapted to seat upon the outer surface of the bulb, around said opening *a*. The nipple *b* has placed over the same at the interior of the bulb a retaining-ring C to which a suitable glue has been applied, so as to firmly connect the ring with the nipple and to permanently confine the part of the bulb immediately surrounding its opening *a* between said ring, and the annular flange *b'*, as more clearly shown in Fig. 3.

In connecting the above parts a suitable amount of adhesive material, such as glue, is applied to the side C' of the retaining-ring C as well as to the wall surrounding the open-

ing in the ring, the same being then inserted through the opening *a* in the bulb A into the interior of the same. The nipple *b* of the funnel B is now inserted through the opening *a*, and by reason of the elasticity of the bulb A the retaining-ring C may be controlled and held so that the said nipple can be inserted through the opening in the ring and the same can be pressed firmly onto the nipple as far as possible. After the glue has sufficiently dried, the portion of the elastic bulb immediately surrounding the opening *a* is permanently secured between the annular flange *b'* of the funnel and the said retaining-ring, while the latter is firmly glued to the nipple *b*. The side C' of the retaining-ring C is slightly dished so that the edge of the same will press upon the material of the bulb at that point while the material inside the edge will be crowded into the shallow hollow of the ring. See Fig. 3. To facilitate the insertion of the nipple into the opening in the retaining-ring, the said nipple is made preferably of slightly tapering form as shown. The aperture extending through the nipple is also preferably made of slightly tapering form so as to receive the correspondingly tapered inner end *d* of the usual nozzle D, which extends a suitable distance beyond the mouth of the funnel. The tapering of the inner end of the nozzle D and correspondingly tapering the aperture through the nipple, enables the firm connection of the nozzle with the funnel and its nipple by frictional contact, but yet enables the nozzle to be readily removed when it is desired to refill the bulb with insect-powder, through the funnel.

The advantage of my invention over others is that it can be manufactured very cheaply, as all of the parts excepting the elastic bulb are made of wood, and as there are but few of said parts there is less liability to breakage and a more substantial article is thereby produced. The connection of the funnel with the bulb is very durable and reliable and can easily be made.

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

1. An insect-powder blower, consisting of an elastic bulb provided with an opening, a filling funnel provided with a nipple and hav-

ing an annular flange surrounding the same between the nipple and the main-portion of the funnel, said nipple being inserted into said opening, and a retaining-ring secured
5 onto the nipple and located in the bulb so as to confine the portion of the bulb surrounding its opening between said flange and the ring, substantially as set forth.

2. An insect-powder blower, consisting of
10 an elastic bulb provided with an opening, a filling funnel provided with a nipple and having an annular flange surrounding the same at the base of the main-portion of the funnel, said nipple being inserted into said opening,

a retaining-ring placed over the nipple inside 15 the bulb so as to confine the portion of the bulb surrounding the opening between the ring and the annular flange, and a nozzle inserted into the aperture of the nipple and extending beyond the funnel, substantially as 20 set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

SIDNEY MEREN.

Witnesses:

PAUL GOEPEL,
GEORGE W. JAEKEL.