

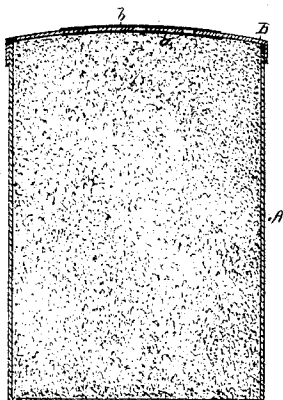
HENRY SAWYER.

Improvement in Putting up Powders.

No. 118,819.

Patented Sep. 12, 1871.

Fig 1.



Witnesses.

L. A. Piper.

L. N. Möller.

Henry Sawyer.

by his attorney.

R. H. Eady

UNITED STATES PATENT OFFICE.

HENRY SAWYER, OF CHELSEA, MASSACHUSETTS.

IMPROVEMENT IN PUTTING UP POWDERS.

Specification forming part of Letters Patent No. 118,819, dated September 12, 1871.

To all whom it may concern:

Be it known that I, HENRY SAWYER, of Chelsea, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Putting up Powders in Boxes; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 denotes a vertical section of a box filled with a material in powder and prepared in accordance with my invention.

The said invention has reference to that for which Letters Patent No. 41,097, dated January 5, 1864, and reissued October 1, 1867, have been granted to me. In my said patent there is described a cylindrical box to contain the powdered article, such box being represented as provided at one end with a cover, and at the opposite one with a series of delivery-holes, having a seal or wafer of wax, or of glutinous matter or varnish, arranged over them and upon the outside surface of the said end; the same being so as to form across each hole, so as to seal it, a thin film or diaphragm, easily broken away or punctured, when it may be desirable so to do, by means of a pin or other suitable instrument, in order to enable the contents of the box or part thereof to be discharged through the punctures or holes. I have found that although the sealing or varnish, when placed on the outside surface of the punctured end or part of the box, will seal the holes, it, by exposure during transportation or handling, is apt to be broken off, so as to open one or

more of the holes, and thereby expose the box to leakage or waste of the powder.

In carrying out my present invention I apply the sealing to the inner side of the end or perforated part of the box and across the holes; or I apply it both on the inner and outer surfaces of the perforated part and across the holes. By so doing the sealing within the box will be completely protected from injury and will hold intact the sealing of the holes. By also applying the sealing or varnish on the outside surface and across the holes a thorough filling of them may be attained, any shrinkage or cracking of the film of any hole being estopped by the external layer.

In the drawing, A denotes the body of the box, and B the cover perforated with holes. *a* denotes the inner layer of sealing, and *b* the outer layer thereof.

I do not herein claim the perforated and sealed package or case, made as set forth in my said patent; but

What I claim as my present invention is—

An improvement in the arrangement of the sealing of the perforated package or box, such consisting either in arranging it on the inner surface of the perforated part and across the perforations, or of so arranging it and also applying a layer of it on the outer surface of the part perforated and across the perforations, all being substantially as set forth.

Witnesses: HENRY SAWYER.

R. H. EDDY,
J. R. SNOW.