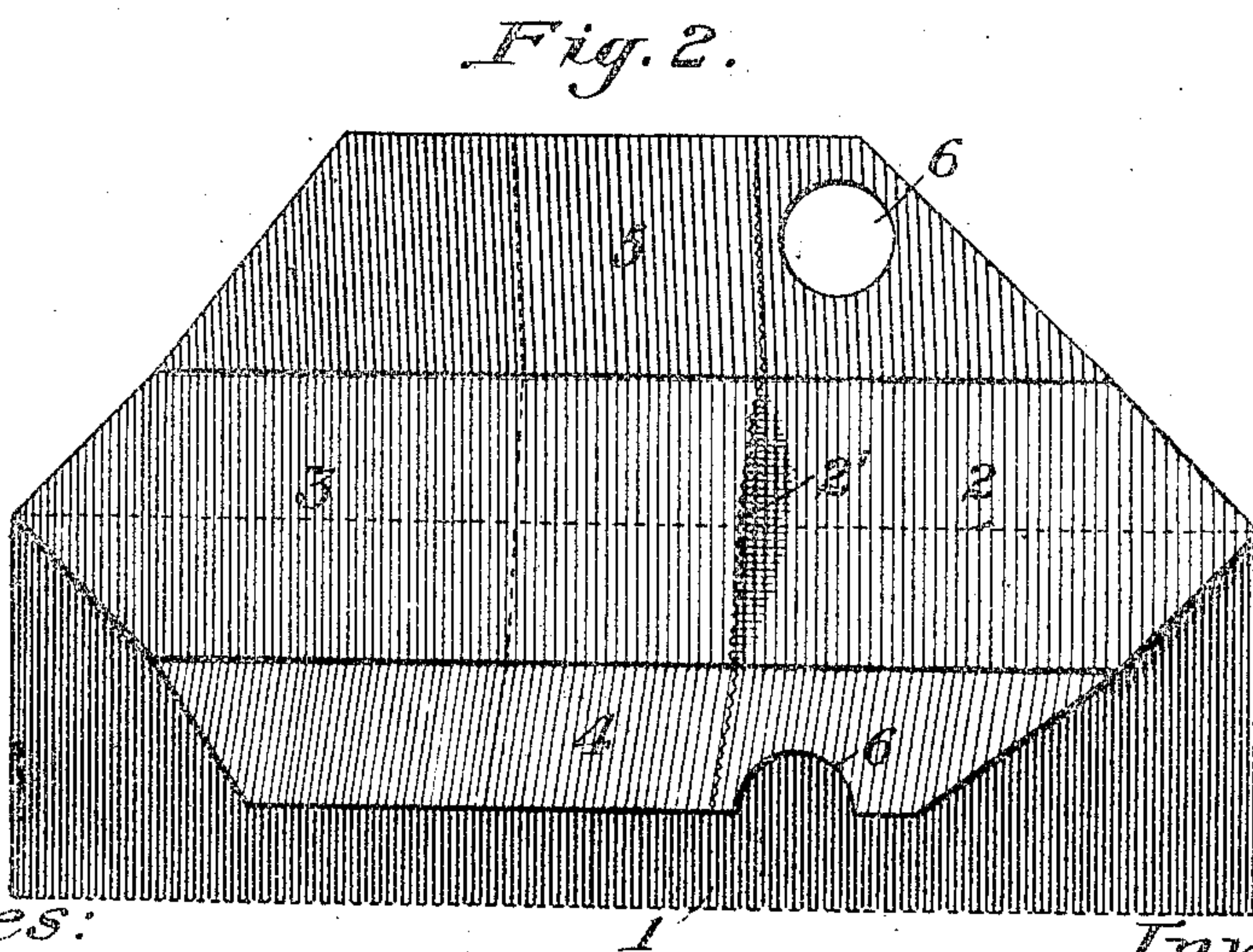
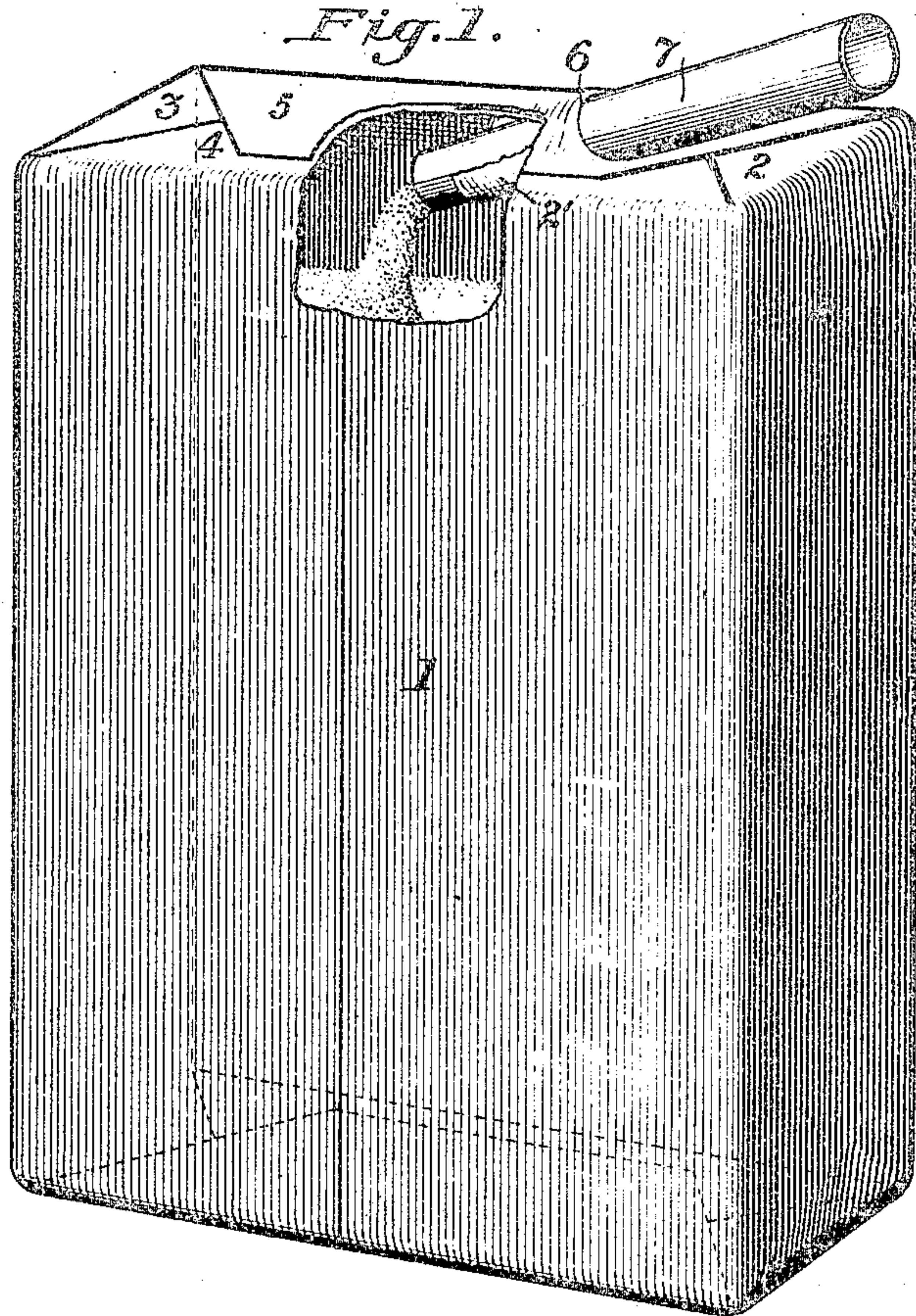


No. 812,454.

PATENTED FEB. 13, 1906.

J. ROGERS.  
VALVE BAG.

APPLICATION FILED FEB. 29, 1904.



Witnesses:

R. B. Baldwin.  
J. B. Hill

Inventor:

John Rogers,  
by Rogers & Townsend  
Attys.



# UNITED STATES PATENT OFFICE.

JOHN ROGERS, OF CLEVELAND, OHIO, ASSIGNOR TO BATES VALVE BAG COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF WEST VIRGINIA.

## VALVE-BAG.

No. 812,454.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed February 29, 1904. Serial No. 195,818.

*To all whom it may concern:*

Be it known that I, JOHN ROGERS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Valve-Bags, of which the following is a specification.

This invention relates to bags which are filled through a valve-controlled opening by means of a tube or funnel.

The improved bag, which is usually of paper, but may be of cloth, has a folded top and bottom and a filling-opening in the top in position to be closed by one of the folds serving as a valve. In the preferred construction the bag has a diamond-folded top and bottom, the filling-opening being closed by one of the primary folds.

Referring to the accompanying drawings, Figure 1 is a perspective view of a paper valve-bag having a circular filling-opening in the top, and Fig. 2 is a perspective view of the partially-folded upper end of the bag.

The paper bag 1 chosen for illustration is closed at both its top and bottom by diamond folds, comprising the primary folds 2 3 and the finishing folds 4 5. The inner finishing fold 4 of the top is pasted down upon the upper primary fold 3. It is also pasted upon the outer portion of the other primary fold 2, leaving the inner portion 2' entirely free. The outer finishing fold 5 is then pasted upon the fold 4. A circular or other opening 6 is cut through both of the finishing folds.

In filling the bag the usual filling-tube 7 is inserted through the opening 6 and between the fold 3 and the free end 2' of the fold 2.

When the bag is filled and reversed, the fold 2 acts as a valve and positively and securely closes the filling-opening.

The utilization of one of the primary folds as a valve makes it possible to furnish a valve-bag at minimum cost, no extra material being required.

I claim—

1. A valve-bag, having a diamond-folded closure, the folds being permanently secured, and a filling-opening extending through the finishing folds and in position to be closed by one of the primary folds of the closure, as set forth.

2. A valve-bag, having a diamond-folded closure at each end, the folds being permanently secured, and a filling-opening extending through the finishing folds of one closure and in position to be closed by one of the primary folds of that closure, as set forth.

3. A valve-bag having a folded closure at one end, the folds permanently secured, and a filling-opening extending through the finishing fold and in position to be closed by one of the primary folds.

4. A valve-bag having a folded closure at one end, the folds permanently secured, and a filling-opening with a valve extension extending through the fabric of the valve at or near one corner.

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

JOHN ROGERS.

Witnesses:

FRANK STONE,  
A. H. GARDNER.