

J. W. MASURY.
Paint Vessels and Packages.

No. 150,337.

Patented April 28, 1874.

Fig: 1.

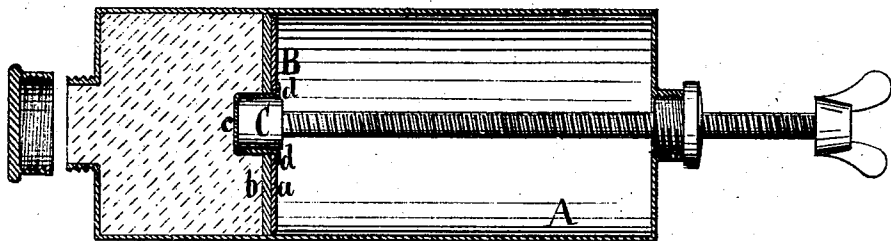
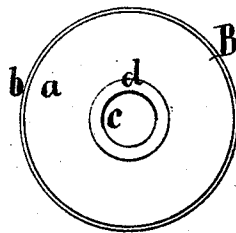


Fig: 2.



Witnesses:

Ernst Billhuber
Henry Fennel

Inventor:

John W. Masury
per
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UNITED STATES PATENT OFFICE.

JOHN W. MASURY, OF NEW YORK, N. Y.

IMPROVEMENT IN PAINT VESSELS AND PACKAGES.

Specification forming part of Letters Patent No. **150,337**, dated April 28, 1874; application filed March 27, 1874.

To all whom it may concern:

Be it known that I, JOHN W. MASURY, of the city, county, and State of New York, have invented a new and useful Improvement in Paint Vessel and Package; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a longitudinal central section of a paint vessel or package containing my improvement. Fig. 2 is a plan or face view of the diaphragm detached.

Similar letters indicate corresponding parts.

This invention relates to a certain improvement on the paint vessel or package described in my Patent No. 141,061, dated July 22, 1873, and particularly to that part of said vessel or package which is termed the diaphragm.

This invention consists in forming the diaphragm for paint vessels or packages of a rigid and a flexible disk, which are connected together by a flanged metallic thimble, which is driven through central openings in the disks, so that the flange bears tightly upon the outer surface of the rigid disk, while the flexible disk clasps closely the body of the thimble, the result being that no paint escapes or oozes past the thimble to the injury of the propelling-rod—an objection present in the aforesaid Letters Patent:

In the drawing, the letter A designates the body of my paint vessel or package, which is made cylindrical, and into which is fitted the diaphragm B. This diaphragm is composed of two disks, *a b*, the disk *a* being made of sheet metal, or other rigid material, and the disk *b* of pasteboard, card-board, or other equivalent substance. These two disks are firmly united by a metallic thimble, *c*, which is provided with a flange, *d*, and is driven firmly through the central holes in the two disks *a b*, so that the flange *d* bears tightly upon the outer surface of the rigid disk *a*, while the hole

in the flexible or pasteboard disk *b* hugs the body of the thimble closely, being pressed up tighter and tighter the greater the pressure of the paint against its surface, so that the passage of the paint past the thimble is effectually prevented, and the rod or finger C, which serves to propel the diaphragm, is not liable to become soiled.

The diameter of the flexible or pasteboard disk *b* is somewhat greater than that of the rigid or metal disk *a*, so that the edge of the flexible disk forms the bearing-surface of the diaphragm against the inner wall of the vessel A, while the rigid disk simply serves to support the flexible disk.

By this arrangement a tight joint is produced between the periphery of the diaphragm and the inner wall of vessel, and at the same time said diaphragm can be propelled with ease and facility.

The edge of the flexible disk adapts itself readily to any slight irregularities in the inner surface of the vessel, and if pressure is applied to the diaphragm the edge of the flexible disk, so to speak, wedges in between the edge of the rigid disk and the inner surface of the vessel, and the joint is rendered tighter and tighter the more the pressure increases.

Diaphragms for cans made up by combining a metallic and an elastic disk placed one upon the other are not my invention, and are disclaimed.

What I claim as new, and desire to secure by Letters Patent, is—

The rigid and the flexible disks of a diaphragm for paint vessels or packages combined with and connected together by a thimble, *c*, said thimble being tightly clasped by the flexible disk, and bearing on the rigid disk by flanges *d*, substantially as described, for the purpose specified.

JOHN W. MASURY.

Witnesses:

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