W. K. HOWE.

GASKET.

APPLICATION FILED APR. 25, 1912.

1,153,162. Patented Sept. 7, 1915.

FIG. 1.

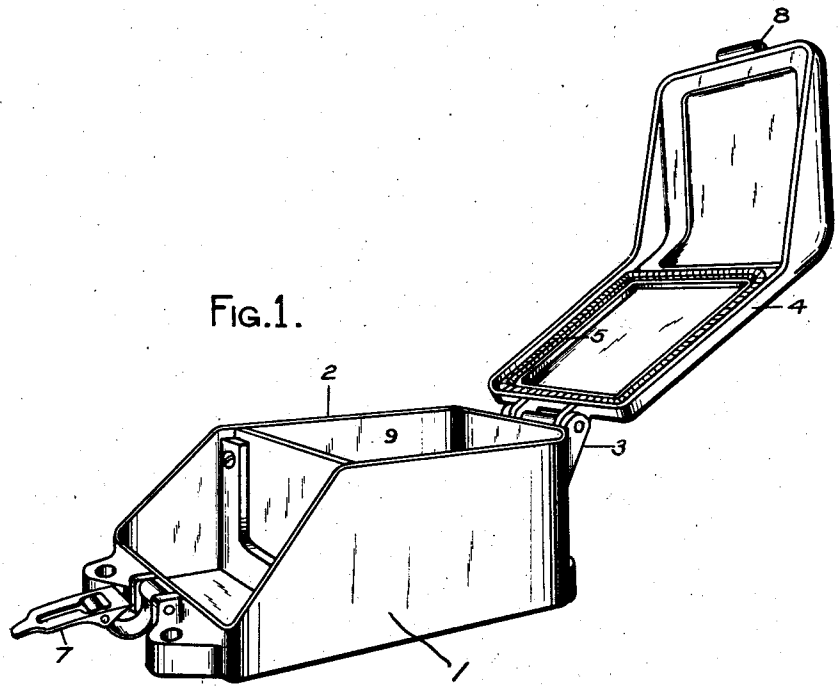


FIG. 2.

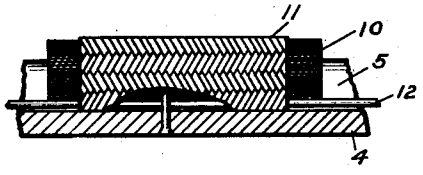
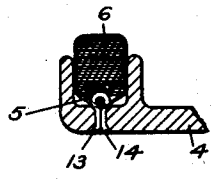


FIG. 3.



WITNESSES:

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GASKET.

1,153,162. Specification of Letters Patent. Patented Sept. 7, 1915.

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To all whom it may concern:

Be it known that I, WINTHROP K. HOWE, a citizen of the United States, and a resident of the city of Rochester, in the county of Monroe and State of New York, have invented a new and useful Gasket, of which the following is a specification.

This invention relates to a gasket, and particularly to a gasket for use in rendering tight the joint between the cover and body of a box.

The primary object of this invention is to construct a gasket for the purpose set forth, which will be elastic, durable, easily placed in position, and firmly and permanently held in position and which will be, furthermore, comparatively inexpensive.

Other objects and advantages will appear as the description of the invention progresses, and the novel features of the invention may be particularly pointed out in the appended claims.

In describing the invention in detail, reference is had to the accompanying drawing, wherein I have illustrated a preferred physical embodiment of my invention, and wherein like characters of reference designate corresponding parts throughout the several views, and in which—

Figure 1 is a perspective view of a box; Fig. 2, is a sectional elevation of my form of gasket in place; Fig. 3, is a cross sectional view of my form of gasket in place.

1, designates the body of a box, having the upper edges 2, the lugs 3, upon which is pivoted the cover 4 having a groove 5 therein. In the groove 5, a gasket 6 is placed, which is adapted, by reason of its position, to bear against the top edge 2 of the box 1 when the cover is placed in a position to close the box. After the cover is moved to a position to close the box, the fastening device 7, co-acting with the lug 8 on the cover, is used to force the cover down firmly upon the top of the box, thus causing the gasket 6 to be pressed firmly against the top edge of the box and in the bottom of the groove 5, so that a water tight joint is formed between the cover 4 and the top edge of the box 2, so that water may not enter the space 9.

My gasket is composed of an inner mass 10 of resilient material, such as felt, and this inner mass of resilient material is surrounded by an outer braid member 11 of cotton or some similar durable material. By thus constructing the gasket, a soft resilient compressible member is obtained which may be easily compressed so as to fill all spaces between the cover and the box through which water may find an entrance to the inner space 9; at the same time the outer covering of braiding 11 protects the inner softer and more easily disintegrating felt or like substance 10 and prevents it from being torn or worn away rapidly.

In order to prevent the gasket from becoming displaced, a wire 12 is laid on the outer surface of the felt before the braiding 11 is formed about the felt and when the gasket is placed in the groove 5, a wire 13 is forced through the outer braiding 11, around the wire 12, and through the braiding on the other side. Both ends of the wire are then bent parallel, one with the other, and passed through a hole 14 in the cover 4. The hole 14 is counter-sunk at its outer end and the ends of the wire 13 are bent sharply away from each other so as to retain the wire 13 in place and prevent it from being drawn through the hole 14. In order to assist the wire 13, solder is poured into the hole 14 so as to bind all parts firmly together and to the cover 4.

My manner of fastening the wire 12 between the outer braid 11 and the inner body of felt 10, has decided advantages and great utility, for, by such a construction the gasket may be firmly attached to the cover 4, with no liability of the wire 12 becoming displaced in the mass of the gasket as it would if the wire 12 were placed within the body of the felt 10. If the wire 12 were placed within the body of the felt 10, if considerable pressure were exerted upon it to hold the gasket within the groove 5, the wire 12 would be drawn through the body of the felt and would finally bear upon the outer braiding 11 and although the gasket would still be held within the groove 5, it would be loose, and it might move out of the groove so far that it would be in such a position as to be nearly severed by the closing and subsequent locking of the box, and furthermore, after the wire 12 was drawn through the body of the fiber, the fiber would be so destroyed that it would lose its virtue as a means for rendering the joint between the

cover and the body of the box entirely water tight.

Gaskets have heretofore been devised for the purpose for which my gasket is applicable. These gaskets have often been made of rubber, but such gaskets are objectionable as the rubber soon deteriorates, becomes hard and unyielding, and thus prevents the formation of a tight joint between the cover and the body of the box. Gaskets have also been made of hemp, but in use they soon become hard and unyielding and furthermore there is no satisfactory method of holding such a gasket within the groove 5.

My gasket has the pliability of the rubber gasket and the durability of the hemp gasket and is also so constructed that it may be firmly and permanently retained in proper position in an inexpensive and readily performed manner.

Although I have particularly described the construction of one physical embodiment of my invention, and explained the operation and principle thereof; nevertheless, I desire to have it understood that the form selected is merely illustrative, but does not exhaust the possible physical embodiments of the idea of means underlying my invention.

What I claim as new and desire to secure by Letters Patent of the United States, is:

1. As an article of manufacture, a gasket composed of an inner body of felt-like material, an outer body of braided material and a metallic member positioned between the inner material and the outer material adapted for a fastening means for holding the gasket in position.

2. As an article of manufacture, a gasket composed of an inner body of felt-like material, an outer body of braided material, and a metallic member of relatively small diameter positioned longitudinally therebetween.

3. As an article of manufacture, a gasket composed of an inner resilient body, an outer covering of less easily disintegrated material, and a metallic member of relatively small diameter positioned longitudinally therebetween.

WINTHROP K. HOWE.

Witnesses:
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ROBINO J. HAIRE.