July 11, 1939. A. OASS 2,165,296

RESILIENT FLAME-RESISTANT GASKET MATERIAL

Filed Sept. 16, 1937

FIG. 1.

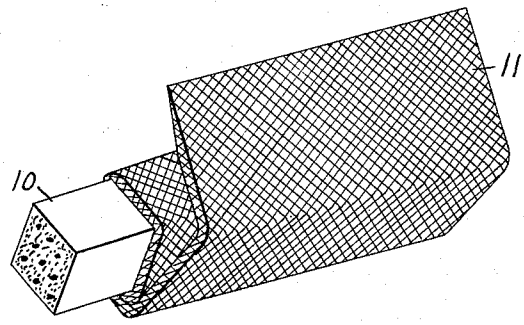


FIG. 2.

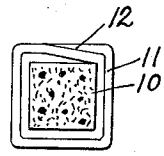
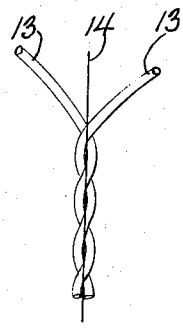


FIG. 3.



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RESILIENT FLAME-RESISTANT GASKET MATERIAL

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Application September 16, 1937, Serial No. 164,138

1 Claim. (Cl. 288—11)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

My invention relates to new and useful improvements in gasket materials, and more particularly to improvements to be used in doors, hatches and miscellaneous openings on shipboard so as to form with the closure a watertight, gas-tight and flame-tight joint.

An important object of my invention is to provide such a flame resisting gasket that is durable, simple in construction, quickly removable for replacement purposes and suitable for all types and shapes of doors, hatches, manholes and other openings for access between compartments.

Another object of my invention is to provide such a flame resisting gasket that may be used to provide the necessary protection around openings, which must in certain instances, be quickly opened or closed with the minimum effort as far as operation of dogs, holding down bolts, or other securing devices are concerned.

In the attainment of my invention I employ a central core of resilient material, such as rubber, with an outer covering of flame resistant material, such as asbestos-metallic cloth.

In the drawing forming a part of this specification, and in which like numbers are employed to designate like parts throughout the same:

Fig. 1 is a perspective view of a section of my invention with the flame-proof cover partially secured around the core;

Fig. 2 is a cross-sectional view of a piece of the assembled gasket material, and

Fig. 3 is a view showing a preferred method of assembling a strand of the covering material's warp or woof, or filling.

In the drawing, where for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 indicates a resilient core of material such as rubber, which is surrounded with one or more plies of a covering 11 of a flame resistant asbestos-metallic cloth. The covering 11 is coated on one side with a flame resisting material to cause adhesion between it and the core 10 and between successive plies of the covering. In order to give a uniform thickness to the covering 11 the ends are tapered and overlapped as shown at 12. Any metallic-asbestos cloth may be used, but that which I have adopted is constructed with a warp and woof or filling, as shown in Fig. 3, which is made up of two strands 13 and 13' of asbestos yarn and one strand of brass or copper wire 14 twisted together. The inclusion of the wire 14 in the warp and woof is for the purpose of giving added strength and ductility to the covering 11.

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

A resilient, flame-resistant gasket material comprising a central rectangular core of vulcanized rubber and a wrapping of at least one ply of asbestos-metallic cloth having its warp and woof each made up of one strand of a metal chosen from the group, brass and copper, and at least two strands of asbestos yarn intertwisted, the edge of said cloth being tapered to a wedge to make the gasket surface smooth and regular.

ALFRED OASS.