

H. E. RASMUSSEN.
 PRESSURE BAG FOR VULCANIZING PURPOSES.
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1,226,596.

Patented May 15, 1917.

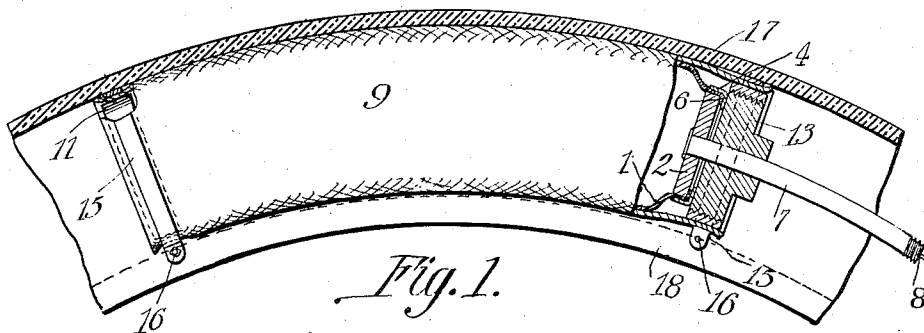


Fig. 1.

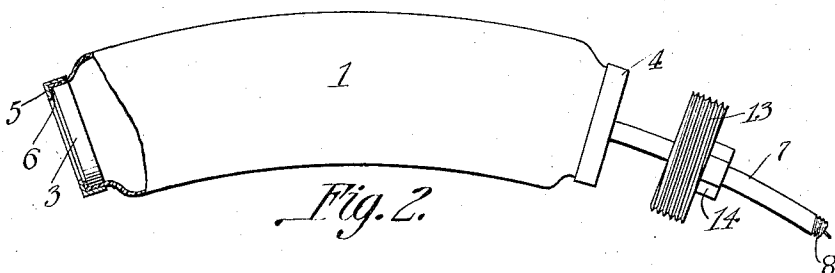


Fig. 2.

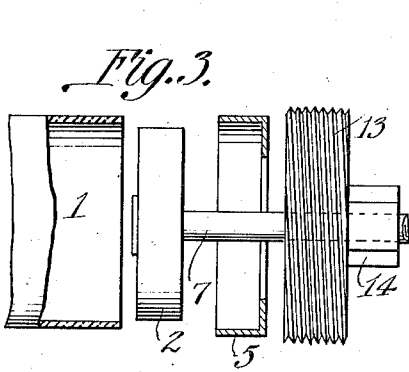


Fig. 3.

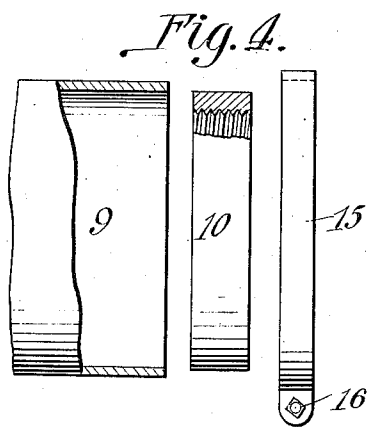


Fig. 4.

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PRESSURE-BAG FOR VULCANIZING PURPOSES.

1,226,596.

Specification of Letters Patent.

Patented May 15, 1917.

Application filed January 18, 1916. Serial No. 72,664.

To all whom it may concern:

Be it known that I, HENRY ERNEST RASMUSSEN, a subject of the King of Denmark, residing at Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Pressure-Bags for Vulcanizing Purposes, of which the following is a specification.

The present invention relates to pressure bags for vulcanizing and other purposes, and has particular reference to new and useful improvements in such devices whereby to supersede the expensive and comparatively inefficient devices heretofore offered.

An object of this invention is to construct a device of the class described having a minimum number of parts, yet strong and durable and cheap to manufacture.

Another object of this invention is to provide a pressure bag which may be constructed from "scrap" material, which at the present time is ordinarily thrown away as useless.

A further object of the invention is to provide a pressure bag in which the parts are interchangeable and capable of easy assembly and disassembly.

Other objects and advantages will appear from the following detail description and the claim, taken with an inspection of the accompanying drawing, in which—

Figure 1 is a side elevation, partly in section, of my improved pressure bag showing the same in use, the tire being in section.

Fig. 2 is a side elevation partly in section of the inner air tube.

Fig. 3 is a side elevation of the parts of the inner tube disassembled.

Fig. 4 is a similar view of the part of the outer jacket.

Referring more particularly to the drawings, wherein similar characters of references designate like and corresponding parts throughout the various views, 1 is the inflatable air tube or container which may be formed from a section of an old tire inner tube with which is associated inflating or air introducing means. The ends of the tube receive a pair of plugs or relatively thick disks 2 and 3. The disks 2 and 3 are connected to the tube by retaining rings 4 and 5 respectively, said rings being preferably right angular in cross section and slightly larger in circumference than the disks so as

to firmly clamp the ends of the tube into engagement with the disks. This is one form of fastener which I use and I reserve the right to modify the same to meet varying conditions. When the end of the tube is clamped it is bent slightly over one marginal edge of the ring as indicated at 6. In order to introduce air under pressure into the tube 1 a short length of pipe 7, which may be curved to suit the contour of a tire or may be straight, is carried by one of the disks, in this instance the disk 2 being employed. The pipe 7 communicates with the interior of the tube 1 and has check valve means 8 on its free extremity for connection to a source of air under pressure.

I provide an outer or protecting jacket 9 for the tube 1 which may be made of a section of canvas tube or the like such as is employed for fire purposes. The outer jacket 9 need not necessarily be air tight since it merely receives the inner air tube 1 when inflated. In order to mount the jacket about the tube 1, I provide a ring 10 in one end of said jacket and a disk 11 in the other end thereof. The ring 10 is interiorly threaded to receive an exteriorly threaded closure 13 mounted on the air pipe 7, and provided with a nut portion 14 to facilitate engagement with the ring 10. The ring 10 and disk 11 are fixed in the open ends of the jacket 9 by contractible clamping straps 15. Suitable bolts 16 or the like serve to clamp the straps about the jacket. Of course, it will be readily apparent that while a ring 10 is inserted in one end of the jacket and a disk 11 in the other end, another ring might be substituted for the disk without departing from the spirit of the invention.

In use the ends of the tube 1 are engaged over the disks 2 and 3 and the clamping rings 6 are forced thereover. This firmly clamps the inner tube 1 on the disks and affords air tight joints. A small quantity of tire cement may be employed at the joint if desired. In this form the tube 1 is inserted into the jacket. The straps 15 are now clamped into their respective positions and the closure 13 screwed into the ring 10. The whole structure is now placed in operative position which may be within the outer casing or shoe 17 of an automobile tire. The tube 1 is now inflated and the device is ready for use. It is to be understood that the beads 18 of the shoe 17 are held in a suitable

clamping device forming no essential part of my invention. Attention is directed to the fact that my improved pressure bag may be made from "scraps," utilizing material which at the present time is ordinarily thrown away. When any of the parts become worn out it requires but a few moments' work to substitute a new part affording a simple, cheap and strong structure. The peculiar distortion of the inner air tube adjacent the ends illustrates the shape substantially when inflated.

From the above description taken in connection with the accompanying drawings, it is thought that a clear and comprehensive understanding of the construction, operation and advantages of my invention may be had, and while I have shown and described my invention as embodying a specific structure, I desire that it be understood that I may make such changes on said structure as do not depart from the spirit and scope of the invention as claimed.

What I claim as my invention and desire to secure by Letters Patent is:

The combination in a device of the class described, of an inflatable tube having a disk member in each end thereof adapted to provide closure means for the said tube, the end of said tube member extending over the outer edge and into engagement with the ends of said disk, a retaining ring right-angular in cross section clamping the tube to said disk member, an outer jacket, the said jacket being provided with closure plugs exteriorly threaded, a ring member interiorly threaded for engagement with the said plug and the outer periphery of the said ring in engagement with the outer jacket to provide means for sealing the end thereof in conjunction with a clamp for the purpose specified.

In testimony whereof I affix my signature hereto.

HENRY ERNEST RASMUSSEN.