

W. C. SHEPARD.
PREPARED PACKAGE OF LUBRICATING GREASE.
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1,309,819.

Patented July 15, 1919.

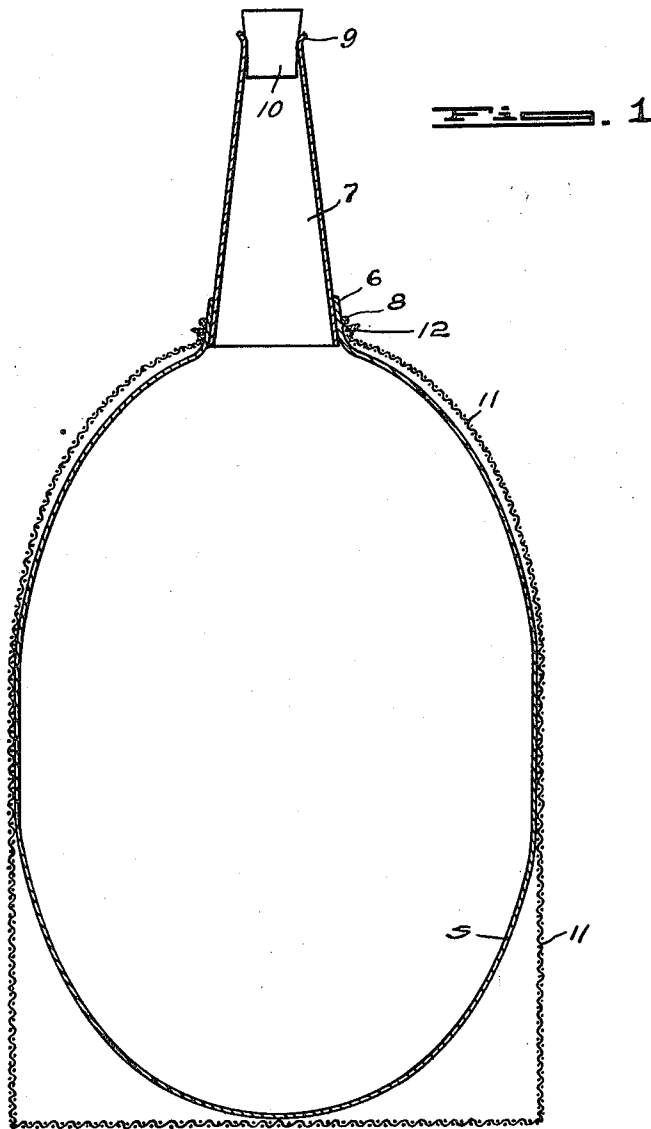
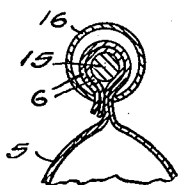
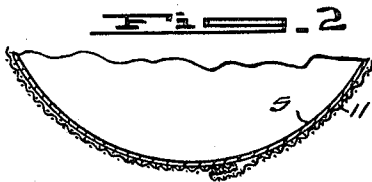


FIG. 3

FIG. 2

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PREPARED PACKAGE OF LUBRICATING-GREASE.

1,309,819.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM C. SHEPARD, citizen of the United States, residing in Seattle, in the county of King and State of Washington, have invented a certain new and useful Improvement in Prepared Packages of Lubricating-Grease, of which the following is a specification.

My invention relates to improvements in prepared packages of lubricating grease and the object of my invention is to provide commercial packages of lubricating grease each of which shall embody a collapsible container filled with lubricating grease and provided with means through which such grease may be ejected directly on to objects to be lubricated, which container shall be of grease tight construction and of relatively cheap cost so that it may be thrown away when empty.

After experimenting for a long period of time and with many different materials in an attempt to find a cheap material that grease will not penetrate and one that will not deteriorate under the action of grease or oil I have discovered that animal tissue in the form of an animal's bladder meets all of the above requirements and not only forms a satisfactory receptacle for grease but also affords, in its natural state, an easy and convenient means with which a tubular nozzle or spout for the ejection of the grease may be connected.

A further object of my invention is to provide a fabric bag in which the bladder may be inclosed, the bag serving to give the package a neater appearance, make it more convenient to handle and also serving to limit the size to which a bladder may be expanded in filling if the bladder is larger than the bag.

I accomplish these objects by devices illustrated in the accompanying drawings, wherein—

Figure 1 is a view in vertical mid-section of a grease container constructed in accordance with my invention;

Fig. 2 is a fragmentary view on broken line 2, 2 of Fig. 1; and

Fig. 3 is a fragmentary sectional view illustrating a method of fastening the top of the bladder when no spout is attached thereto.

Referring to the drawings throughout which like reference numerals indicate like

parts the numeral 5 designates an animal bladder which is of sufficient size to serve as a grease container and is formed with a neck or outlet 6 at one end.

7 is a tapered spout or tubular nozzle preferably of sheet metal, as tin, that has its larger end inserted within the neck 6 of the bladder 5 and is secured thereto by having a wire 8 twisted tightly around it.

The top end of the spout 7 is flared slightly as indicated at 9 to facilitate the insertion of a stopper 10 which may be an ordinary piece of cork.

Surrounding the bladder 5 is a covering of cloth in the form of a bag 11 that is fastened around the neck of the bladder as at 12 and may be of any shape that is convenient to make and any material that is relatively inexpensive.

In view of the fact that the bladders used may be of various sizes the cloth bags 11 may be constructed of a certain known and definite size so that when the bladders are filled with grease their expansion will be limited by the size of the bags and they will not hold more than a predetermined quantity.

In the drawings I have shown a simple form of bag that is made from a rectangular piece of cloth by folding the cloth and stitching it squarely across the bottom and up one side, the top being left open when the bag is made and closed or gathered around the neck of the bladder by a draw string after the bladder has been inserted therein but it will be understood that, if desired, the bottom and top of the bag may both be rounded to snugly fit the bladder.

The bag 11, by serving as a covering for the bladder, gives the package a neater appearance and makes it more convenient to handle than it would be if the bladder was left uninclosed owing to the fact that the bladder itself becomes very slippery if any grease gets on the outside thereof.

It has been found that an animal bladder makes an absolutely grease tight receptacle and one that will not deteriorate under the action of the grease but will be preserved and at the same time rendered more tough and pliable by the action of the grease.

The bladders from cattle are well adapted for this use and are relatively cheap so that the containers made therefrom may be thrown away when they are emptied.

The bladder 5 may be filled with grease of relatively thick consistency that is suitable for lubricating purposes thus to constitute a manufactured article of commerce in the form of a prepared package that is adapted to be manipulated to deposit successive portions of its contents directly upon objects to be lubricated, it being only necessary to remove the cork 10 and dispose the spout 7 in a position to deposit the grease at the point desired and then squeeze the bladder 5 to collapse it sufficiently to eject the required amount of grease.

In Fig. 3 I have shown means for closing the neck of the bladder 5 where the spout 7 is dispensed with, such means comprising the use of a short piece of wire 15 and a relatively short piece of tube 16 that is split longitudinally on one side.

When the closure means shown in Fig. 3 is used the neck portion 6 of the bladder 5 is flattened so that the two sides lie flatly against each other and is then doubled over the wire 15 and the split tube 16 is slipped thereover and squeezed together tightly to thereby securely clamp that portion of the neck 6 that lies between the wire 15 and the bladder 5.

It will be obvious that changes in the precise form of construction and arrangement of parts of my invention may be resorted to within the scope of the following claims.

What I claim is:

1. A receptacle for lubricant grease comprising an animal's bladder, a spout connected with the neck of said bladder and a bag of fabric surrounding the said bladder and loosely fitting said bladder prior to filling and adapted to be engaged by the bladder upon expansion when filling to regulate the quantity of lubricant placed therein.

2. A receptacle for lubricant grease comprising an animal's bladder, a tubular spout connected with the neck of said bladder, a removable stopper for said spout and a bag of flexible material surrounding said bladder and serving to limit the size of said bladder when said bladder is expanded within said bag, said bag being practically free of contact with said bladder when the bladder is empty.

3. A receptacle for lubricating grease comprising a grease tight container formed of animal tissue and having an outlet opening, and a bag of flexible material inclosing said container and forming a covering therefor, being substantially out of contact therewith when said container is deflated, and adapted for limiting the quantity of grease received therein.

In witness whereof, I hereunto subscribe my name this 29th day of August, A. D. 1918.

WILLIAM C. SHEPARD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."