Nov. 13, 1923. 1,474,118

O. A. RICE

GREASE CARTON

Original Filed April 7, 1921

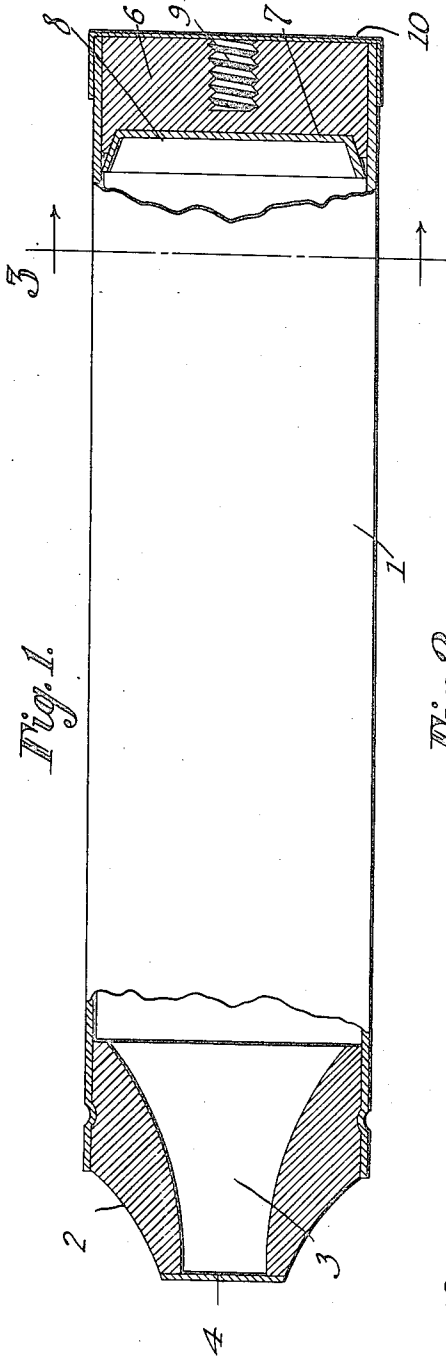


Fig. 1.

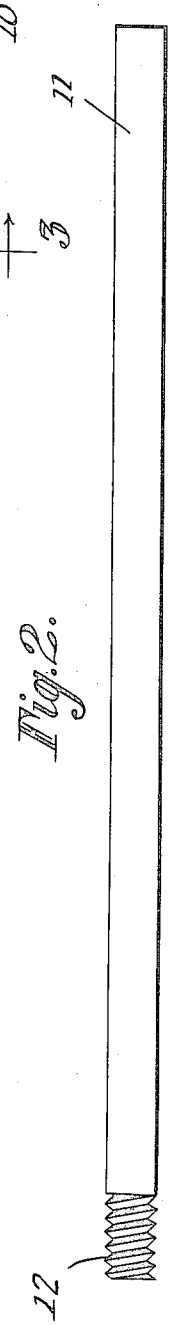


Fig. 2.

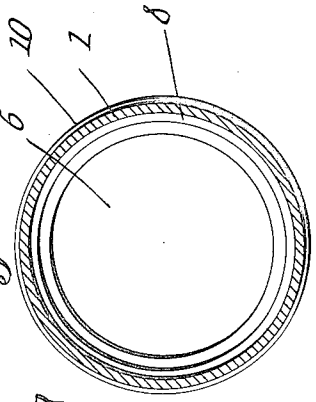


Fig. 3.

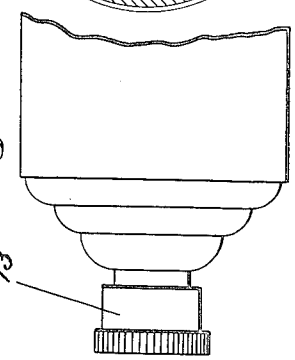


Fig. 5.

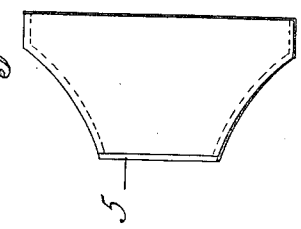


Fig. 4.

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UNITED STATES PATENT OFFICE.

ORIN A. RICE, OF WEYAUWEGA, WISCONSIN.

GREASE CARTON.

Application filed April 7, 1921, Serial No. 459,375. Renewed April 2, 1923.

To all whom it may concern:

Be it known that I, ORIN A. RICE, a citizen of the United States, residing at Weyauwega, in the county of Waupaca and State of Wisconsin, have invented a new and useful Grease Carton, of which the following is a specification.

This invention relates to cartons especially designed for holding lubricating grease, one of its objects being to provide a carton in which the grease can be sold to the consumer, the construction of the carton being such that the said carton can be utilized as a grease gun for directing grease from the carton and into the cup or other receptacle provided for the grease in the mechanism to be lubricated.

Another object is to provide a carton in which one of the end closures constitutes a piston while the other end closure constitutes in part a nozzle, the said piston and nozzle being normally sealed but it being possible for the user readily to break the seals and employ the piston and nozzle for expelling the grease from the carton.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings

Figure 1 is a view partly in elevation and partly in section of a carton such as constitutes the present invention.

Figure 2 is an elevation of a stem which can be used in connection with the carton.

Figure 3 is a section on line 3—3, Figure 1.

Figure 4 is an elevation of a slightly modified form of nozzle head.

Figure 5 is a side elevation showing another modified structure.

Referring to the figures by characters of reference 1 designates the cylindrical body of the carton which can be made of heavy cardboard suitably treated or metal, one end of this carton being closed by a nozzle 2 which can be formed of wood and has an opening 3 extending therethrough, said opening gradually increasing in transverse area inwardly from the outer end of the nozzle. A cap 4 in the form of a paper disk or the like is secured across the outer end of the nozzle so as to normally close the opening 3 although it is to be understood that under some conditions the entire nozzle can be made out of metal suitably shaped, as shown in Figure 4. In this event the outer end of the nozzle can be closed by a metal disk 5 held to the nozzle by soft solder and which disk can be easily removed to release the contents of the carton.

The other end of the body 1 is adapted to be closed by a disk 6 constituting a piston and which disk can be formed of wood with a recess 7 in its inner face. A suitable packing disk 8 can be mounted within the recess and have its edge portion extended to slidably engage the inner surface of the wall of the carton. The outer end of the disk or block 6 can be provided with a recess 9 and for the purpose of sealing the end of the carton in which the block 6 is located, a paper cap 10 or the like can be secured across the block and to the carton.

The carton herein described is adapted to be completely filled with grease after which the two ends are sealed as shown and the cartons sold to the trade. If desired there can also be sold with the carton a stem such as shown at 11 in Figure 2 and which stem can be shaped at one end to properly engage the recess 9. For example, if the recess is screw threaded one end of the stem can also be screw threaded as shown at 12.

When it is desired to expel the contents of the carton or, in other words, to use the carton as a grease gun, the user breaks the cap 10 and inserts one end of the stem 11 into the recess 9. He then removes the disks 4 or 5, depending on the nature of the nozzle 2 employed, and subsequently presses the piston 6 forwardly. This will cause the grease to be ejected through the opening 3 and into the grease cups or other receptacles provided for the grease.

Obviously by shipping grease in a carton such as described it becomes unnecessary to use separate grease guns such as have been heretofore been employed.

As shown in Figure 5 the nozzle can be provided with a screw cap 13 instead of being constructed as heretofore described.

What is claimed is:—

A combined carton and grease gun including a body, a plug seated in one end of the body and slidable therein, this plug having its outer face normally flush with one end of the body and its inner face formed with a concentric recess, a packing material secured within the recess for engagement with the inner surface of the body, there being a recess in the outer face of said plug for the reception of operating means, a sealing disk secured to the outer face of said plug and to the body and normally holding the plug against outward movement relative to the body and normally closing the recess in the outer face of the body, a plug fixedly secured in the other end of the body and having a reduced end portion projecting beyond the body to form a nozzle, there being a passage extending through the last named plug, and a sealing disk secured to the projecting end of said plug for closing the outer end of the passage.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ORIN A. RICE.

Witnesses:
R. F. TAGGART,
A. J. RIECK.