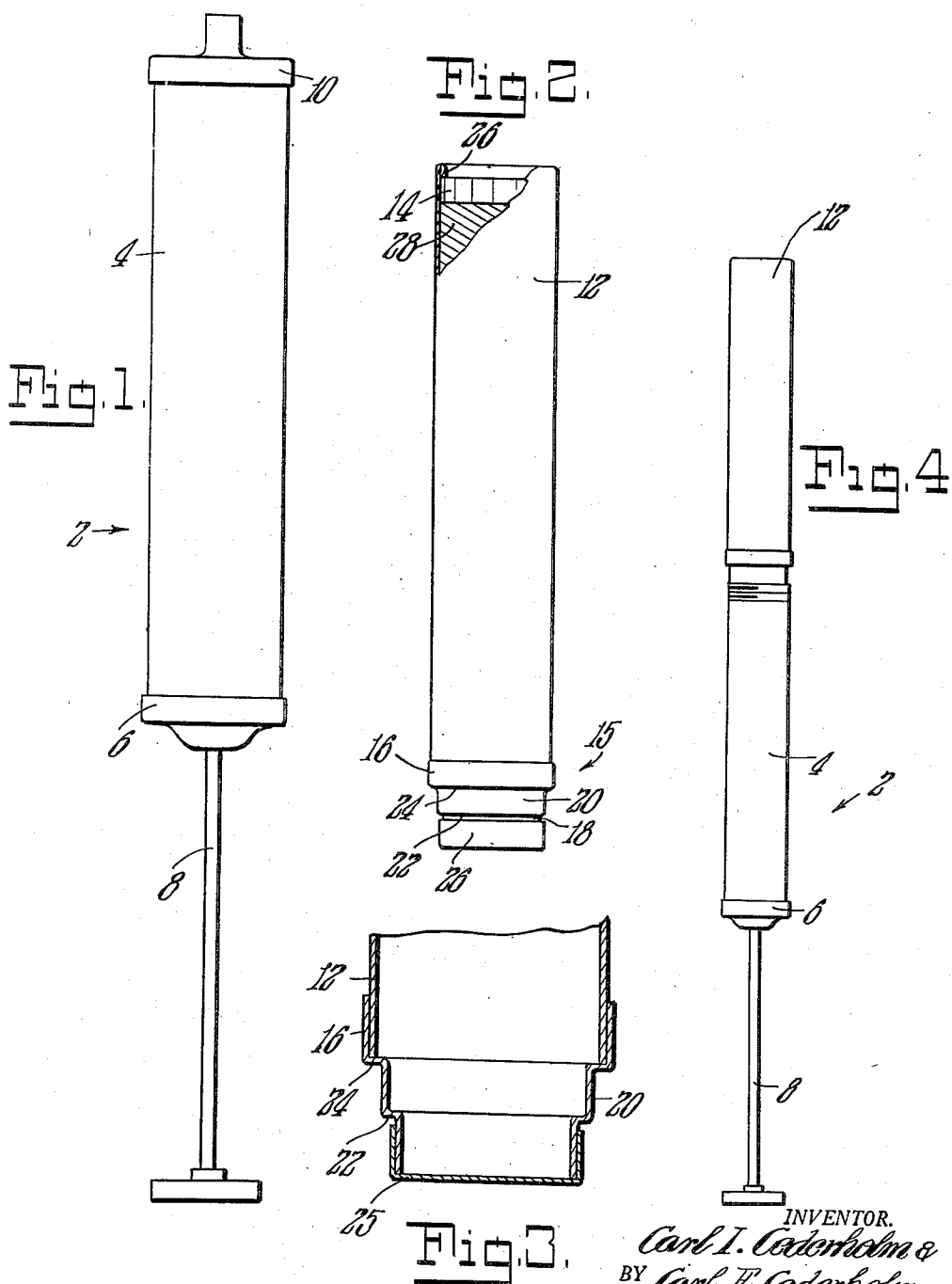


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C. I. CEDERHOLM ET AL
GREASE GUN LOADING DEVICE

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INVENTOR.
Carl I. Cederholm &
BY *Carl E. Cederholm*
Ross, Ross
Attys.

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GREASE GUN LOADING DEVICE

Carl I. Cederholm and Carl E. Cederholm, South
Worthington, Mass.

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1 Claim. (Cl. 222—117)

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This invention relates to improvements in devices for charging grease guns with grease. The principal objects of the invention are directed to a device for filling a grease gun which is inexpensive to produce so that it may be discarded after use, if desired.

Garages and other users of grease guns have great difficulty in filling a grease gun. The usual practice is to employ a stick or paddle to put amounts of grease in the gun but this is a slow and messy process and considerable grease is wasted.

According to this invention, a device is provided which consists of a cylinder which is filled with grease and has a plunger therein for discharging the grease into a gun.

With the foregoing and various other novel features and advantages and other objects of my invention as will become more apparent as the description proceeds, the invention consists in certain novel features of construction and in the combination and arrangement of parts as will be hereinafter more particularly pointed out in the claim hereunto annexed and more fully described and referred to in connection with the accompanying drawings wherein:

Fig. 1 is a side elevational view of a typical grease gun;

Fig. 2 is a side elevational view of a grease gun loading device embodying the novel features of the invention;

Fig. 3 is a sectional elevational view through the lower end of the device shown in Fig. 2; and

Fig. 4 is a side elevational view of the loading device connected to a grease gun for loading the same.

Referring now to the drawings more in detail, the invention will be fully described.

A grease gun 2 has a cylinder 4 and a cap 6 fixed to one end thereof. A piston, not shown, of ordinary form, is reciprocable in the cylinder and is connected to a rod 8 extending through cap 6.

A discharge cap 10 is in threaded engagement with the opposite end of the cylinder so as to be removable to provide an open end to the cylinder. The cap will be arranged for connection to various fittings to which grease is to be supplied.

The piston of the grease gun is moved towards the discharge end of the gun to discharge grease. When the supply is exhausted, the piston is moved to the opposite end of the cylinder and the cap 10 is removed to provide an open end of the cylinder for filling.

The device of the invention includes a cylinder

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12 which may be made from inexpensive material such as paper or cardboard which is suitably treated to withstand the action of the grease.

A plunger 14 is provided in the cylinder 12 which is movable forwardly to the discharge end 15 thereof.

The discharge end of the filler device is formed or has a metal member 16 secured thereto which is formed to provide one or more neck portions 18 and 20 and shoulders 22 and 24.

The neck portions are made to be receivable in the open end of a grease gun cylinder with the end of the cylinder abutting a shoulder. The neck portions and/or shoulders may be provided with grooves for the escape of air from the gun.

A cap 25 is provided for the neck portion 18, as shown. A rim 26 is provided on the opposite end of the cylinder 12, which prevents outward movement of the plunger 14.

The filling device is loaded with grease through the discharge end thereof. The plunger 14 abuts the rim and when filled the cap 26 seals the end 15. The grease is represented by 28.

The device may be made from various materials such as suitably treated paper or cardboard so as to be economical and the neck portion and shoulder may be formed on the cylinder or formed from thin metal and secured thereto.

The filled devices are suitable for storage and shipment of lubricating grease and are adapted for the ready and easy filling of a grease gun.

To fill a grease gun the part 10 thereof is removed and the piston is moved away from the open end of the cylinder.

The neck portion of the filling devices, after the removal of the cap 26 therefrom, is inserted in the open end of the grease gun cylinder.

The plunger 14 of the device is moved to the discharge end thereof by pressure thereon by means of a stick or the like and grease in the device is discharged into the grease gun.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claim are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

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A device for discharging grease into the open end of a hollow cylindrical grease gun cylinder comprising in combination, an elongated hollow cylindrical body for a charge of grease formed from cardboard and having an inwardly extending annular rim at the rear end thereof, a plunger in said body inwardly of and held against movement outwardly of the rear end of said body by said rim and being slidable forwardly in said body for discharging grease at the forward end thereof, a metallic tubular discharge member secured to the forward end of the body having outer and inner longitudinally spaced neck portions forwardly of said end disposed concentrically relative to the longitudinal axis of said body, said inner neck portion having a diameter less than that of the body to provide a shoulder rearwardly thereof, and said outer neck portion having a diameter less than that of the inner

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neck portion to provide a shoulder rearwardly thereof, said neck portions adapted for insertion into the open end of a grease gun with a shoulder rearwardly thereof in abutment with the end of said gun for discharge of grease from the body into the gun by forward movement of said plunger, and a cap for removably fitting said outer neck portion.

CARL I. CEDERHOLM.
CARL E. CEDERHOLM.

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