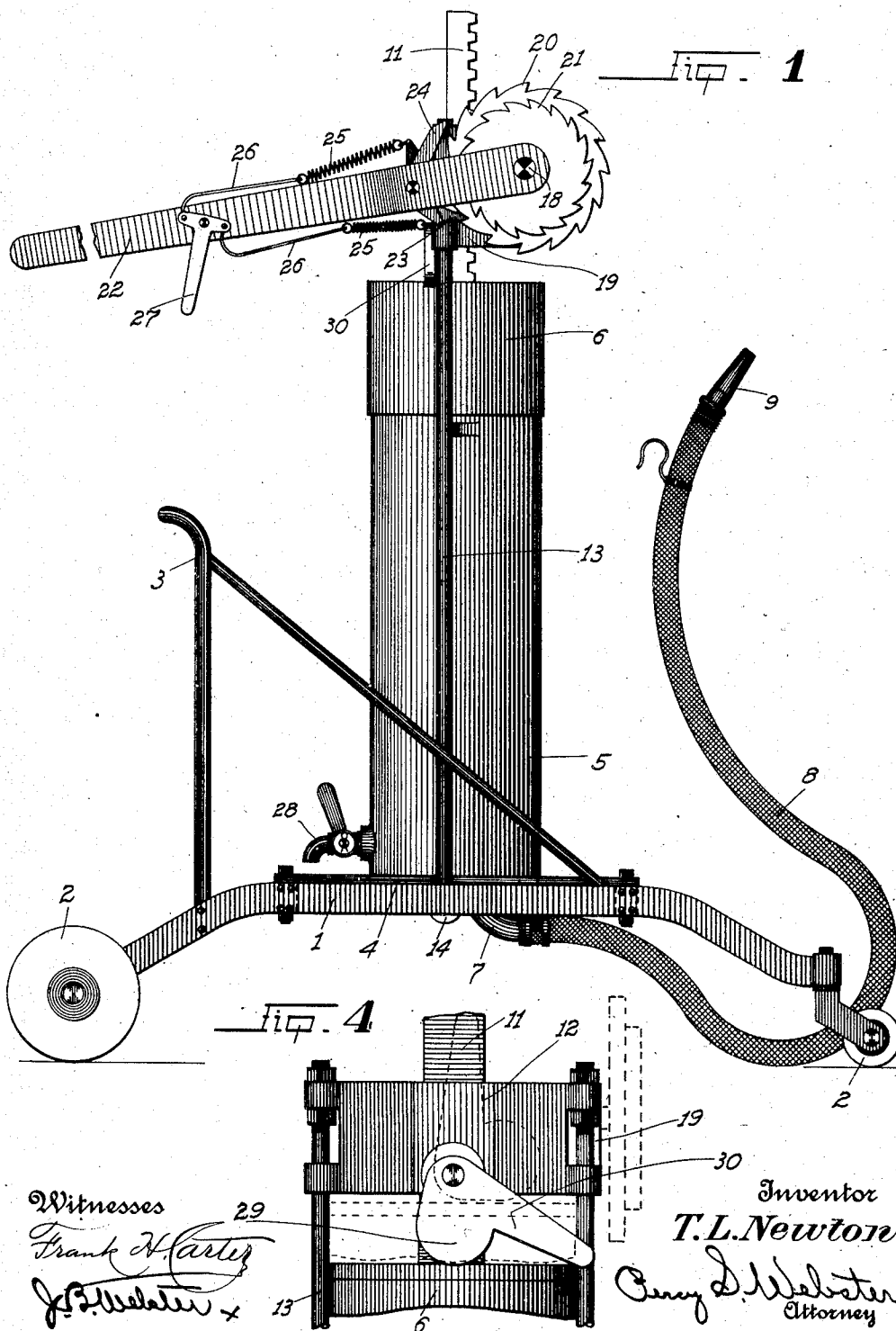


T. L. NEWTON.
GREASE DISPENSING APPARATUS.
APPLICATION FILED MAR. 21, 1911.

1,015,395.

Patented Jan. 23, 1912.

2 SHEETS—SHEET 1.



Witnesses
Frank H. Carter
J. B. Webster x

Inventor
T. L. Newton

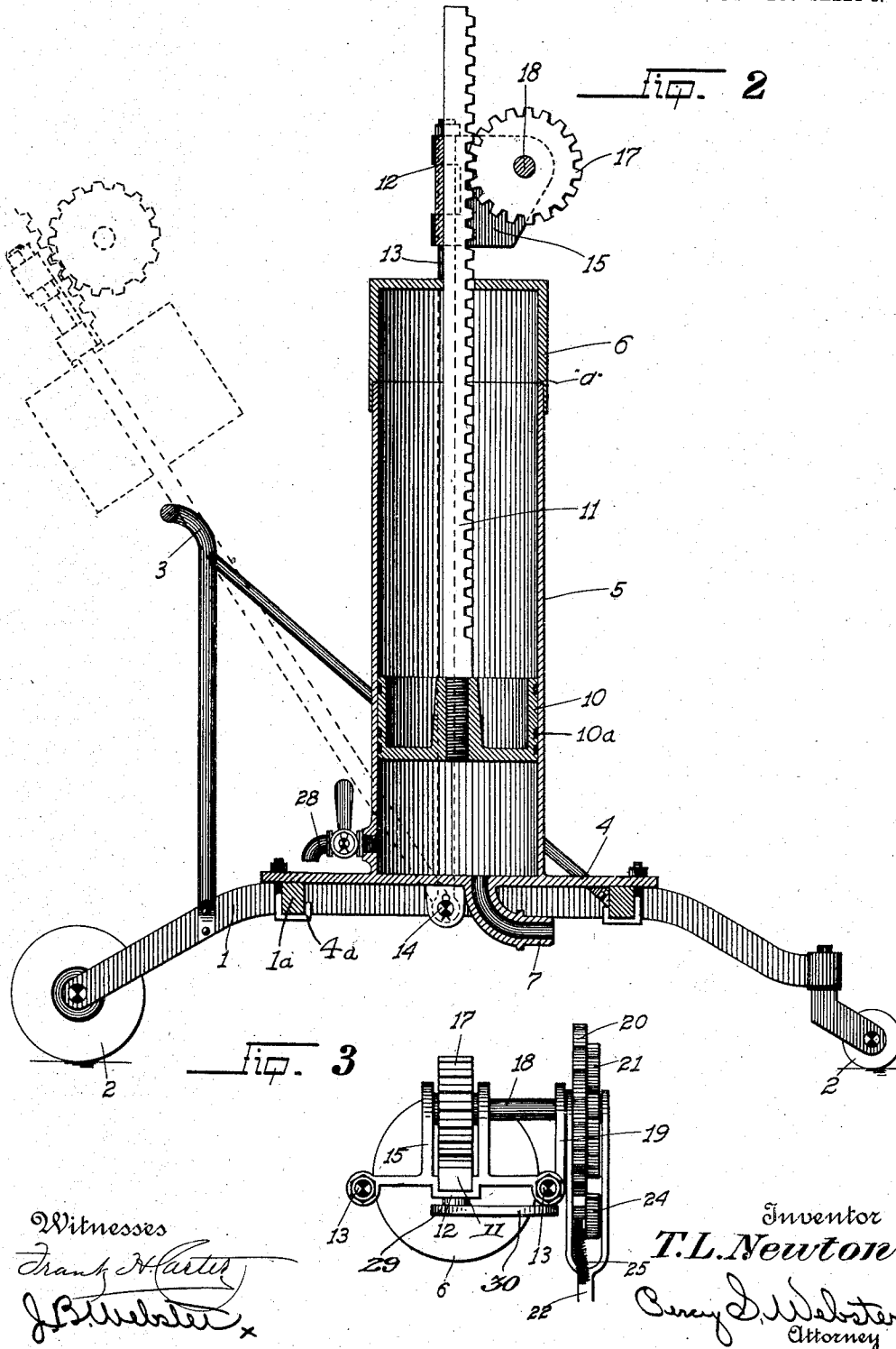
Cory D. Webster
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UNITED STATES PATENT OFFICE.

THOMAS L. NEWTON, OF FRESNO, CALIFORNIA.

GREASE-DISPENSING APPARATUS.

1,015,395.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed March 21, 1911. Serial No. 615,954.

To all whom it may concern:

Be it known that I, THOMAS L. NEWTON, a citizen of the United States, residing at Fresno, in the county of Fresno, State of California, have invented certain new and useful Improvements in Grease-Dispensing Apparatus; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in pumps and particularly to a grease pump to be used for injecting or inserting lubricating grease or oil of any desired kind into motor vehicles or engines as may be desired, the object of the invention being to produce a portable pump which will have a large carrying capacity and a sufficient force to pump hard or soft grease in a rapid and efficient manner.

A further object of the invention is to produce a simple and inexpensive device, and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of the complete pump. Fig. 2 is a vertical cross section of the same. Fig. 3 is a top plan view of the pump cylinder and operating gear. Fig. 4 is a rear elevation of the upper end of the pump cylinder and supports.

Referring now more particularly to the characters of reference on the drawings I first provide side supporting members 1 mounted on suitable operating rollers 2 and having a suitable operating handle 3. Secured to said members 1 are cross beams 1^a to which are secured by J-bolts 4^a a bottom plate 4 of a vertical cylinder 5, which cylinder is split at one point as at "a" to form a removable cap 6. The bottom of the plate 4 is provided with a nozzle 7 adapted to receive a hose or flexible pipe 8 through which the grease will be pumped to a nozzle 9 adapted to be inserted in the part of the

mechanism which is to be lubricated, such as transmission boxes, differentials, crank cylinders or any other part of the machinery to be lubricated.

Movable within the cylinder 5 is a piston 10 having a gear rack or rod 11 projecting through the cap 6 and movable through a guide 12 mounted on side rods 13 hinged as at 14 to the bottom plate 4. The piston 10 has three rings 10^a.

On the member 12 are projecting arms 15 carrying a gear wheel 17 engaging the rack 11 to raise and lower the piston 10. Said gear wheel 17 is mounted on a shaft 18 projecting through an arm 19 on one of the rods 13 on the outer end of which shaft 18 are two ratchet wheels 20 and 21 having their ratchets disposed in opposite directions. Also mounted on the shaft 18 is an operating handle 22 having two dogs 23 and 24 adapted to engage the ratchet wheels 20 and 21 respectively to lower or raise the piston 10. Each of these dogs 23 and 24 has a spring 25 connected by a link 26 with a lever 27 whereby either of said dogs may be engaged with its respective ratchet wheel as it is desired to raise or lower the piston 10.

In operation the downward movement of the piston 10 will force the lubricant through the nozzle 7, hose 8 and nozzle 9 into the mechanism to be lubricated.

When it is desired to fill the cylinder 5 with the lubricant the piston 10 is raised by means of the operation above described until it fits into the cap 6 and then it is continued to be raised until it lifts the cap 6 clear of the cylinder 5 when the entire cap, piston and piston operating means may be inclined backward against the member 3 as shown in Fig. 2 by dotted lines and the cylinder 5 can then be filled as desired. This operation is permitted of by reason of the flexible connection 14 of the rods 13, the operating mechanism being all connected on said rods 13, as above described. In order to permit the piston 10 to be readily raised I provide a cock 28 which may be opened to permit an intake of air as the piston 10 is raised, which cock will of course be closed when the cylinder 5 is filled with lubricant.

Mounted on the member 12 is an eccentric cam 29 having a handle 30, which cam is impinged against the lid 6 when the cylinder is full in order to hold such lid 6 in position and the corresponding mechanism rigid for use.

From the foregoing description it will readily appear that I have produced such a device as will substantially fulfil the objects of the invention as set forth herein.

5 While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit
10 of the invention.

Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent, is:—

1. A device of the character described
15 comprising a portable base, a vertical cylinder on said portable base, a removable cap on said cylinder, a piston operating in said cylinder, means for operating said piston, and means for removing said piston and

said cap simultaneously from said cylinder 20 by said operating means as described.

2. A device of the character described comprising a base, a vertical cylinder on said base, such cylinder having a removable cap, a piston movable in said cylinder, a 25 geared bar on said piston projecting through the top of said cap, vertical bars hinged to said base and carrying a guide, said geared bar being movable through said guide, means for operating said geared bar, an ec- 30 centric cam mounted on said guide and adapted to engage said cap, as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS L. NEWTON.

Witnesses:

PERCY S. WEBSTER,
JOSHUA B. WEBSTER.