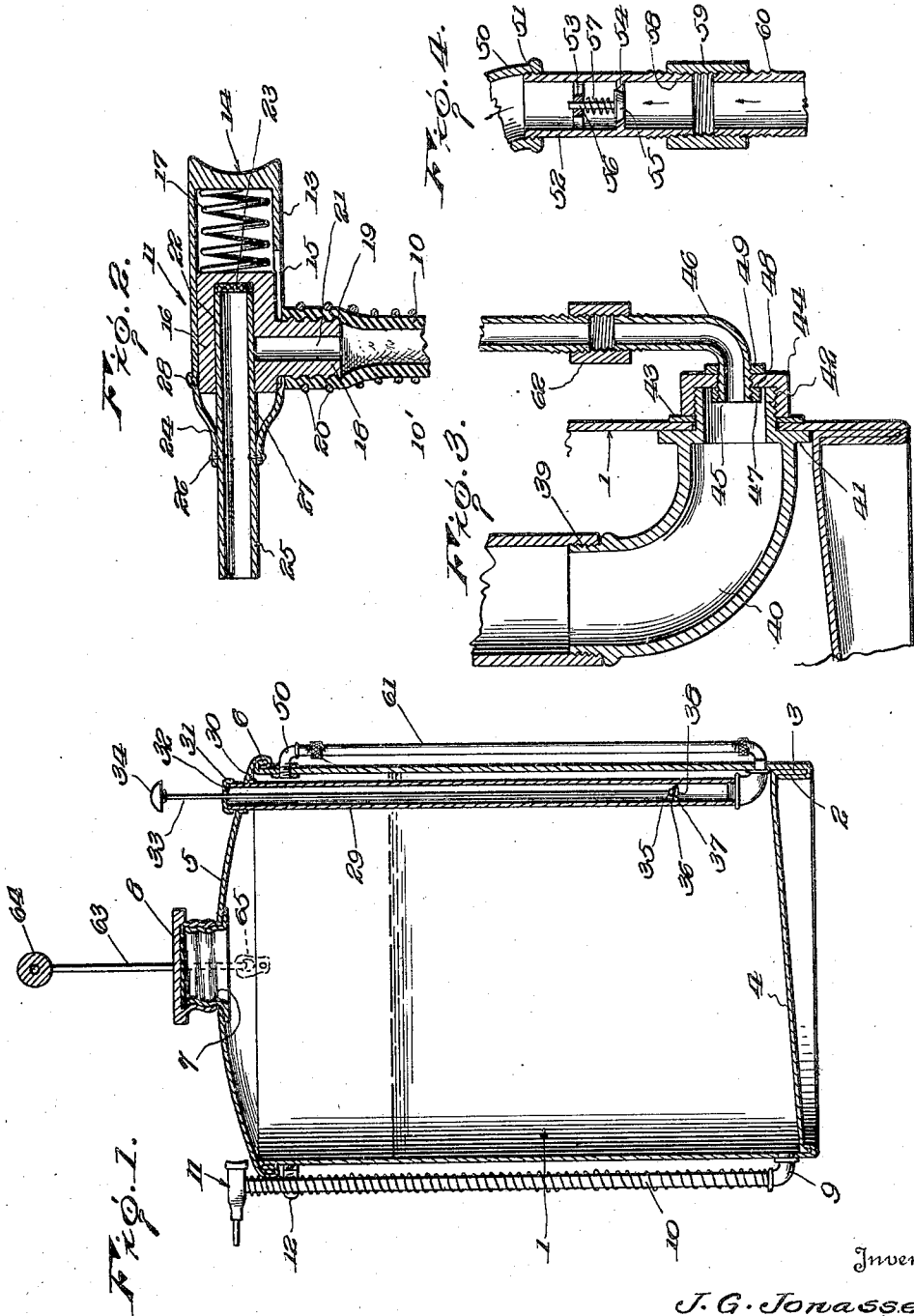


J. G. JONASSEN.
DISPENSING CONTAINER.
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1,363,656.

Patented Dec. 28, 1920.



Inventor

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JONAS G. JONASSEN, OF BROOKLYN, NEW YORK.

DISPENSING-CONTAINER.

1,363,656.

Specification of Letters Patent. Patented Dec. 28, 1920.

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To all whom it may concern:

Be it known that I, JONAS G. JONASSEN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Dispensing-Containers, of which the following is a specification.

This invention relates to a dispensing container especially adapted for receiving oils and the like.

An object of the invention is to provide a controlling valve for a spout of an oil can by means of which the user of the can is enabled to first place the nose of the spout in position to direct the fluid into the container to be filled and then start the flow, thereby avoiding waste of the oil.

In the drawings—
20 Figure 1 is a vertical central section of the container.

Fig. 2 is a longitudinal section through the dispensing valve.

25 Fig. 3 is a vertical section through the base of the container and through the air pump connections.

Fig. 4 is a vertical section through the valve in the air delivery tube.

In detail:

30 The invention, as herein shown comprises a container body designated in general at 1 and having the rolled up bottom flange 2 in which the edges 3 of a bottom 4 are seated, the said flange and edge being so
35 crimped or otherwise secured together as to form a fluid-tight joint. Similarly an upper end 5 is secured to the container body by rolling together the edges of the upper end with the edges of the container body as indicated at 6 and an opening flange 7 is
40 secured in place in the head 5 and provided with suitable means such as threads to receive a closing cap 8. At the lowermost point of the container body 1 is located a
45 nipple 9 having secured thereto a flexible spout 10, the end of which carries a dispensing valve 11, said flexible spout 10 being held in the upright position by means of a suitable clip 12 secured to the container body 1. As illustrated in Fig. 1, the
50 bottom 4 is uniformly sloped in the direction of the elbow 9 so that the contents of the can may be entirely dispensed.

The construction of the dispensing valve or nozzle 11 is clearly shown in Fig. 2. A
55 shell 13 having a thumb piece or head 14

is apertured as shown at 15 to accommodate the shank of a body member 16 which is backed by a spring 17 and said body member 16 has a nipple 18 provided with
60 ribs 19 over which the end of the flexible spout 10 is slipped and secured in place by suitable securing means 20. The body 16 has an outlet passage 21 communicating with the flexible spout 10 and ending in a
65 right angle discharge passage indicated at 22 and which has seated, in its closed end, a packing disk 23 of such material as leather or the like. Locked to the forward end of the shell 13 is a head member 24 which carries a spout 25 riveted to the said head member 24 or otherwise secured as at 26 and
70 the inner end of said spout member 25 is indicated at 27 and is slidably guided within the passage 22 of the valve body 16 and
75 has its rear end capable of being seated against the packing disk 23. The head member 24 and the shell 13 may be locked together by any suitable means such as crimping as indicated at 28, this joint being only
80 for the purpose of permitting assembling of the valve parts. It will be seen by this construction, that when the valve is assembled, pressure on the thumb piece 14 will serve to withdraw a portion of the length 27 of
85 the spout from its guiding passage 22 with the result that the rear end thereof will pass beyond the passage 21 and permit flow of the liquid through the spout until at such time as pressure on the thumb piece 14 is
90 relieved.

In order to provide for proper dispensing of the contents of the container 1 without regard to the position of the nozzle 11, there is embodied within the container and parallel to the walls thereof, a tubular pump
95 cylinder 29 passing through a suitable sealing shoulder 30 to the exterior of the head 5 and closed by a cap 31 having an inlet opening 32 and which guides a plunger rod 33
100 having a knob 34, the lower end of the plunger rod 33 carrying a nut 35 against which is seated a disk 36 providing a seat for the pump cup 37 which is retained in place by a nut 38. The aforementioned construction
105 is the usual air pump construction, air being taken in through the opening 32 and bypassing the piston cup 37 and being expelled on the downward stroke of the plunger rod 33 which expands the said cup
110 against the walls of the pump cylinder 29. The lower end of the pump cylinder 29 is

joined as indicated at 39 to an elbow 40 flanged as at 41 and having a threaded extension 42 passing through a suitable opening in the said wall of the container 1. The threaded extension 42 receives a washer 43 against which a cap 44 bears to provide a tight joint. The cap 44 is apertured to receive the threaded end 45 of an elbow 46, said elbow being secured in place by a nut 47 on the inside of the cap 44 seating against a washer 48 and locked in place against fluid leakage by a check nut 49. At the upper end of the container body 1 is a nipple or elbow 50 which has secured thereto by means of the threads 51 a short length of pipe 52 containing a valve stem guide 53 and a valve seat 54 receiving a plunger valve 55 having a stem 56 encircled by a suitable valve tension spring 57. This valve is one form which may be used in this connection but any other form of the valve such as the usual Schraeder tire valve may be substituted. The lower end of the member 52 is suitably threaded as indicated at 58 to receive a threaded connecting collar 59 which also accommodates the threaded end 60 of a length of pipe 61, a similar threaded collar 62 being provided at the lower end and threaded onto the elbow 46 so that a connection is formed which will deliver air pumped by reciprocation of the plunger rod 33 to the upper part of the container body 1 and thus provide a pressure for forcing the contents of the container body 1 therefrom when the dispensing valve 11 is open.

A suitable bail 63 carrying a handle 64 is attached by ears 65 to the container body.

The flexible spout 10 is inclosed by a spiral spring 10' secured at one end to the nipple 9 and this spiral spring returns the nozzle 11 to the position shown in Fig. 1 as soon as the operator releases said nozzle.

I claim:

1. The combination of a pressure feed fluid container including a receptacle and pressure generating means, and discharge means comprising a body having inlet and outlet passages, a spout slidably extending into one of said passages and adapted for normally closing the other passage, and a slidable

shell inclosing said body and being rigidly connected to said spout whereby adjustment of said shell with relation to said body will result in the movement of said spout.

2. A device of the class described comprising a body having an outlet passage and an attaching nipple provided with a passage opening into said outlet passage, a spout slidable within said outlet passage and adapted for closing the passage in said nipple, and a shell inclosing said body and having connection with said spout.

3. A device of the class described comprising a body having inlet and outlet passages, a spout slidably extending into one of said passages and adapted for normally closing the other passage, a slidable shell inclosing said body and being rigidly connected to said spout whereby adjustment of said shell with relation to said body will result in movement of said spout, and a spring confined between one end of said body and one end of said shell for normally positioning said spout over one of said passages.

4. A device of the class described comprising a body having an outlet passage and an attaching nipple provided with a passage opening into said outlet passage, a spout slidable within said outlet passage and adapted for closing the passage in said nipple, and a shell having sliding connection with said body and having rigid connection with said spout whereby adjustment of said shell will result in the movement of said spout.

5. A device of the class described comprising a body having an outlet passage and an attaching nipple formed with a passage opening into the intermediate portion of said outlet passage, a spout having its rear portion slidable in said passage and adapted for closing the passage of said nipple, a shell receiving said body and slidable with relation to the same, said shell being rigidly connected to said spout, and a spring confined between one end of said shell and one end of said body.

In testimony whereof I affix my signature.

JONAS G. JONASSEN. [L. s.]