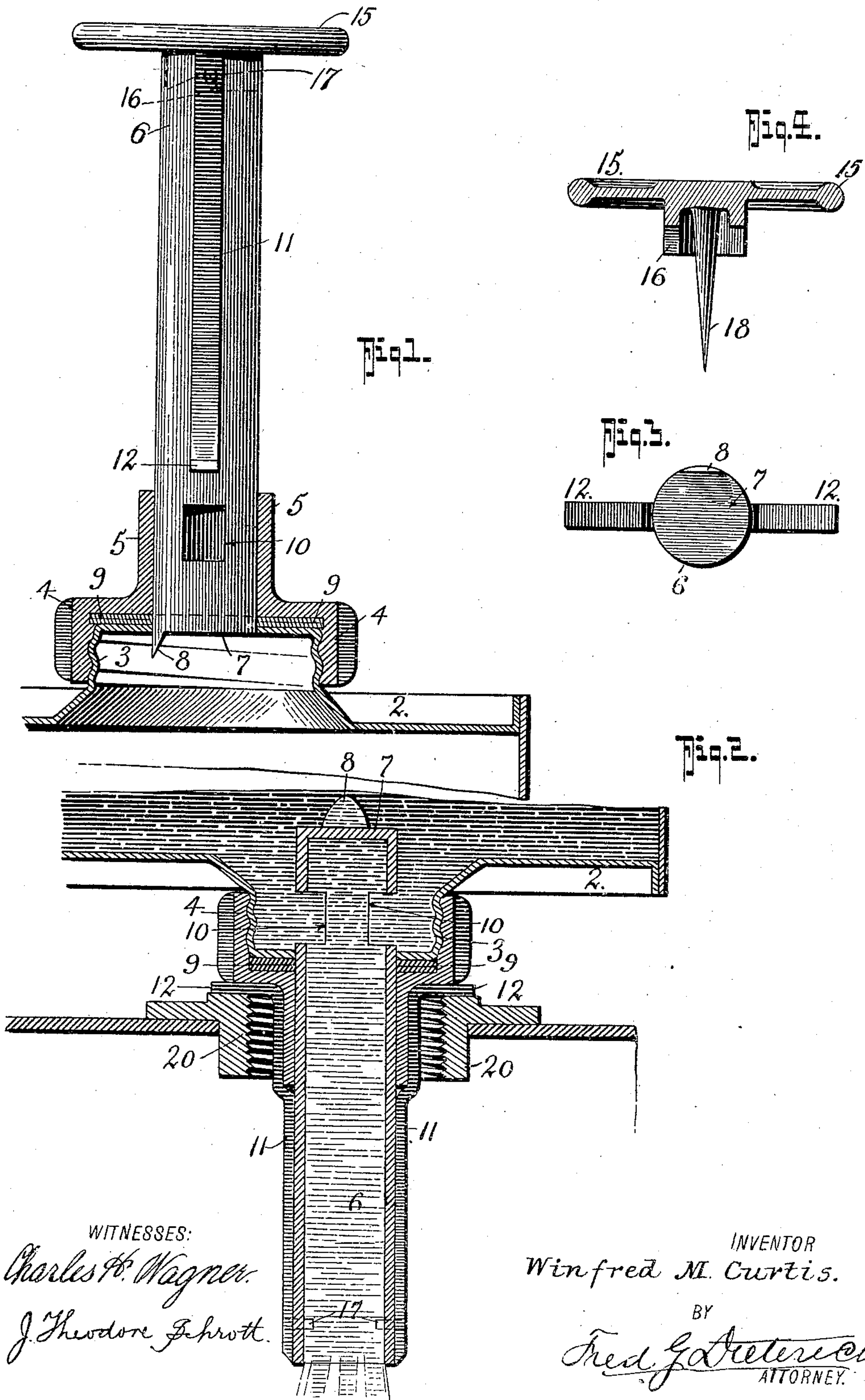


W. M. CURTIS.  
OIL CAN CUTTER AND TAPPING VALVE.  
APPLICATION FILED APR. 13, 1909.

938,644.

Patented Nov. 2, 1909.



WITNESSES:

*Charles H. Wagner.*  
*J. Theodore Schroth.*

INVENTOR

*Winfred M. Curtis.*

BY

*Fred. G. Petersen*  
ATTORNEY.



# UNITED STATES PATENT OFFICE.

WINFRED M. CURTIS, OF VANCOUVER, BRITISH COLUMBIA, CANADA.

## OIL-CAN CUTTER AND TAPPING VALVE.

938,644.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed April 13, 1909. Serial No. 489,659.

*To all whom it may concern:*

Be it known that I, WINFRED M. CURTIS, subject of the King of Great Britain, residing at Vancouver, in the Province of British Columbia, Canada, have invented a new and useful Oil-Can Cutter and Tapping Valve, of which the following is a specification.

This invention relates to a device which may be attached to the cap screw of a gasoline can and is provided with means by which a circular aperture may be cut in the metal of the can and with a tube and valve to tap that opening, which valve will slidably open when the can is inverted for pouring and is inserted in the filling hole of the tank or vessel into which the gasoline is to be poured.

The device is designed to overcome the difficulty commonly experienced in pouring gasoline from the ten gallon cans in which it is usually supplied into a tank or other receptacle.

The invention is particularly described in the following specification reference being made to the drawings by which it is accompanied in which;

Figure 1. is a vertical section showing the application of the device to the cap screw of a gasoline can as in position for cutting the aperture; Fig. 2. a similar section showing the device in position for emptying the can, and Fig. 3. an end view of the device showing the aperture cutting point and the horns which rest upon the edges of the filling aperture of the receptacle to be filled and slidably operate the valve.

In these drawings 2 represents a portion of a gasoline can, 3 being the cap screw the end of which it is desired to cut and tap the can from and 20 the filling aperture of an oil tank.

The device consists of an attaching member 4 provided with a screw corresponding to that 3 of the can, and concentric with this attaching member 4 is a cylindrical sleeve 5 within which sleeve is rotatable and endwise slidable a closely fitting tubular member 6 closed at its end 7 and provided with a small cutter 8 projecting from the outer edge of its end. The attaching screw 4 is furnished with a washer 9 of leather or similar material that will joint upon the end of the cap screw 3 and at its inner edge will form a slidable gland to maintain tight the passage of the tube 6 through the sleeve 5. The

tube 6 is provided with apertures 10 adjacent to the end 7 but a sufficient distance therefrom that they will be closed by the sleeve 5 when the tube 6 is in the position for cutting the can.

Secured to the outside of the tube member 6 are members 11 having outwardly turned projections 12 that when the can is inverted and the tube inserted in the filling hole 20 of an oil tank, as shown in Fig. 2 will operate to move the tubular member 6 through the aperture cut in the end of the cap screw 3 and will open the valve apertures 10 to allow the contents of the can to flow out. These members 11 stand clear of the tube 6 adjacent to the horns 12 so as to enable these members 11 to clear the sleeve 5.

Removably socketed into the opposite end of the tube 6 to that which is provided with a cutting member 8 is a hand wheel 15 the socket of which is provided with driving edges 16 that will engage small pins 17 or corresponding engagements in the tube 6 and will enable the hand wheel to effect the rotation of the tube member 6 to cut an aperture in the end of the cap screw 3.

Secured to the center of the hand wheel 15 and projecting inward when the same is in place in the tube 6, is a steel piercing member 18 which when the hand wheel is removed may be used to pierce a venting aperture in the can.

To use the device the cap is removed from its screw 3 and replaced with the attaching member 4, the tubular member 6 is then inserted in the sleeve 5 and by means of the hand wheel is rotated so that its cutting point 8 will cut a circular aperture in the end of the cap screw 3. The hand wheel 15 is then removed and the can being inverted the tube 6 is inserted in the filling aperture 20 of the tank or other vessel, and on being lowered the horns 12 will rest upon the edges of the aperture and will by the weight of the can endwise slide the tube 6 to project within the can the apertures 10 and permit the gasoline to flow out through the tube 6.

If found desirable a spring may be introduced to normally hold the tube 6 in the closed position so that when the horns 12 are lifted off the filling aperture the valve will automatically close.

Having now particularly described my invention and the manner of its use I hereby



declare that what I claim as new and desire to be protected in by Letters Patent is:

1. As a device for cutting an aperture in an oil can and for tapping the contents, said device comprising an attaching member threaded to fit the cap screw of an oil can, a tubular member rotatable and endwise slidable in said attaching means said tubular member having a closed inner end and a can cutter endwise projecting therefrom and apertures adjacent to the closed end, means for rotating the tubular member and means for endwise moving it to expose the aperture of the tube member within the can.

2. As a device for cutting an aperture in an oil can and for tapping its contents, said device comprising an attaching member internally threaded to fit the cap screw of the can and having concentric therewith a sleeve bearing, a tubular member rotatable and endwise slidable in the sleeve bearing said tubular member having a closed end and a can cutter projecting endwise from it and apertures adjacent to that end, horns projecting diametrically from the tubular mem-

ber, and removable means for rotating the tubular member.

3. As a device for cutting an aperture in a can and for tapping its contents, said device comprising an attaching member internally threaded to fit the cap screw of the can, a tubular member slidably fitting the attaching screw said tubular member having a closed end and a cutter projecting endwise from it and apertures through it adjacent to the closed end, projections on the tube by which the tube may be endwise moved within the bearing to project the apertures in the tube within the can when cut, a removable hand wheel by which the tubular member may be rotated and a piercing member secured to the hand wheel.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WINFRED M. CURTIS.

In the presence of—

ROWLAND BRITTAIN,  
NUSTYN WILLIAMS.