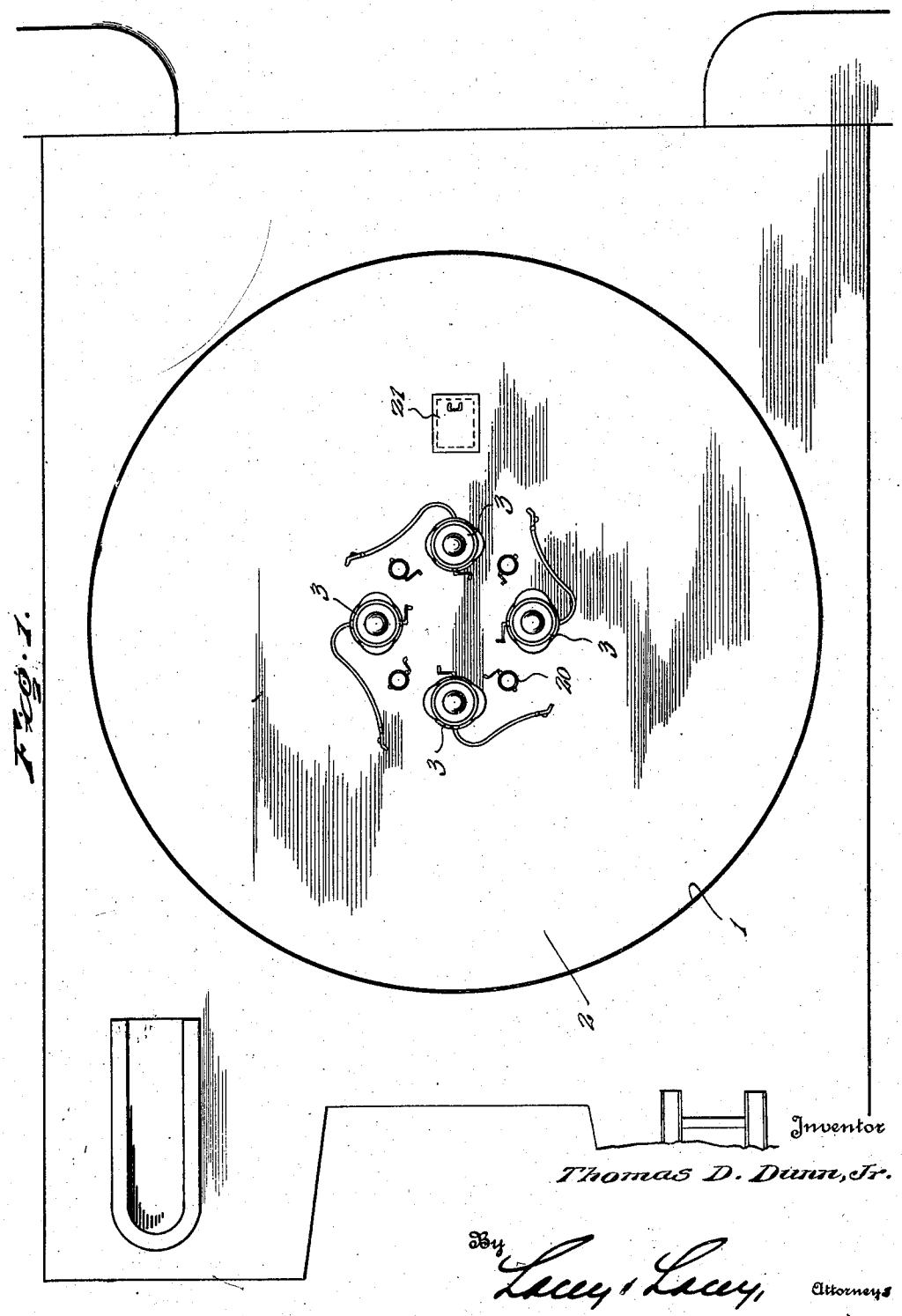
Feb. 4, 1930. T. D. DUNN, JR 1,746,074

SERVICE STATION

Filed July 6, 1927 2 Sheets-Sheet 1




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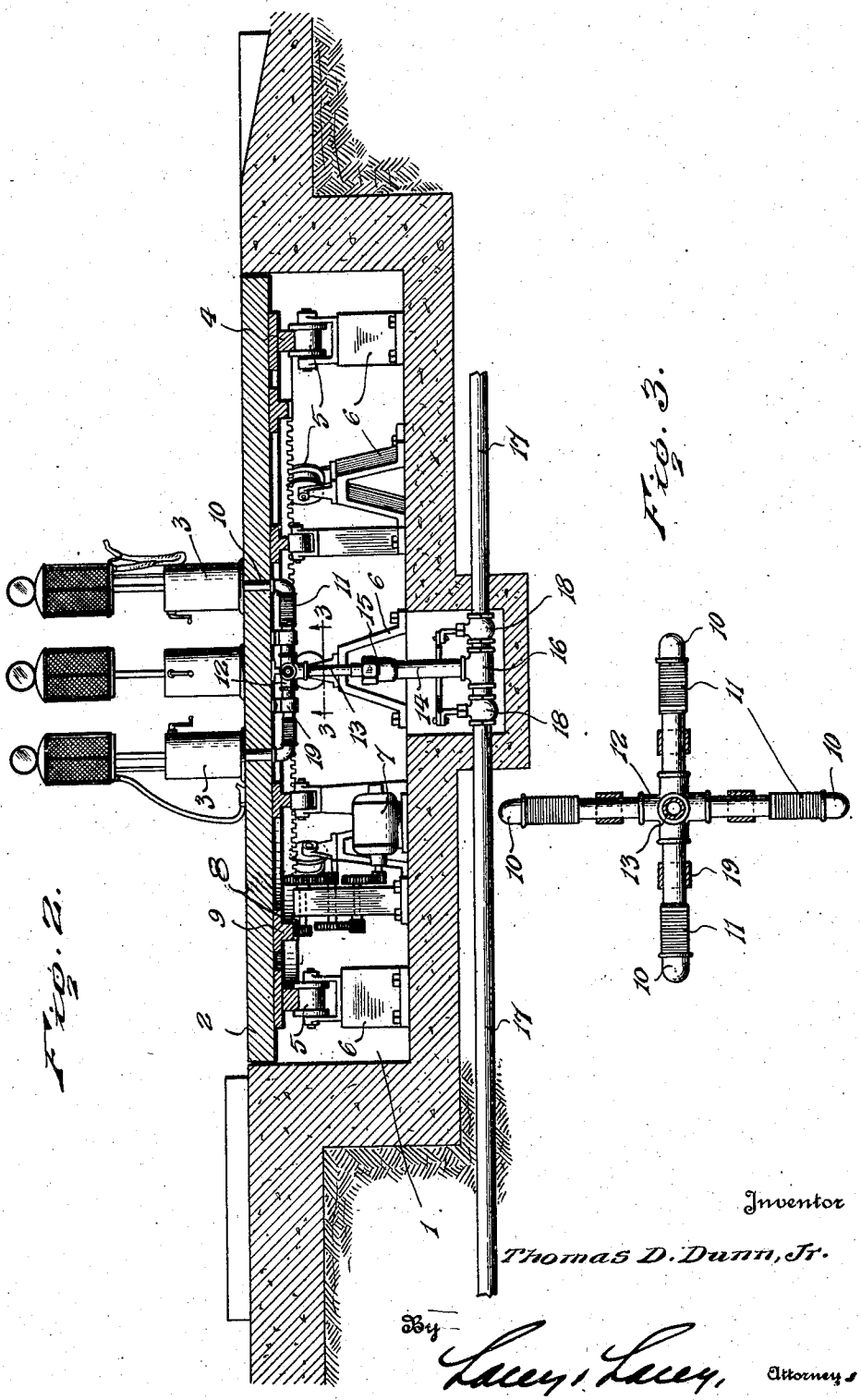


Fig. 2.

Fig. 3.

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Patented Feb. 4, 1930 1,746,074

# UNITED STATES PATENT OFFICE

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## SERVICE STATION

Application filed July 6, 1927. Serial No. 203,830.

Stations for servicing automobiles and motor vehicles generally require ample room for entrance, exit and servicing of the machines. These conditions are essential and cannot be met in a restricted area, hence the present invention has for its primary object to devise an arrangement whereby a service station may be advantageously operated in a restricted space which heretofore was deemed to be impracticable.

In accordance with the invention a turntable is located upon the restricted space selected for the station. An approach connects the street with the turntable. When a station dispenses motor fuel the tank or tanks containing the fuel, such as gasoline, are located in any convenient position with reference to the turntable and the dispensing pumps are mounted upon the turntable and connected with the source of supply to draw the gasoline therefrom, a valve mechanism being provided to enable a desired brand of fuel to be selected and dispensed when the station is equipped to supply more than one brand or type of fuel. Rotation of the turntable reverses the cars and makes it possible for them to leave the station without the necessity of backing or swinging in a large circle.

While the drawings illustrate a preferred embodiment of the invention, it is to be understood that in adapting the means to meet specific needs and requirements, the design may be varied and other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof reference is to be had to the following description and the drawings hereto attached, in which:

Figure 1 is a top plan view of a service station embodying the invention.

Figure 2 is a vertical central sectional view thereof.

Figure 3 is a fragmentary sectional view on the line 3—3 of Figure 2, looking in the direction of the arrows.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates a pit and 2 a turntable mounted therein with its top about flush with the surface of the space selected for the station. The numeral 3 represents a plurality of pumps mounted upon the turntable 2 and adapted to dispense the motor fuel. The pumps 3 may be of the type generally provided for delivering gasoline at service stations. The turntable 2 is of a diameter to carry a plurality of motor vehicles and is reached by a driveway leading from the street or road. A circular track 4 is attached to the bottom side of the turntable 2 and engages grooved rollers 5 mounted upon supports 6 attached to the bottom of the pit 1. The turntable may be rotated in any direction by any determinate means and, for convenience, an electric motor 7 is provided and a train of gearing connects the shaft of the motor with a drive pinion 8 which is in mesh with an annular cog rack 9 secured to the bottom side of the turntable 2. The supply of current to the motor 7 may be controlled in any convenient way, usually by means of a push button (not shown) positioned so as to be readily accessible.

A pipe 10 connects with each of the pumps 3 and includes a flexible coupling 11. The pipes 10 connect with a cluster 12 which is centrally disposed beneath the turntable. A pipe 13 connects with the cluster 12 and depends therefrom and connects with a vertical pipe 14 by means of a universal joint 15 which is suitably packed to prevent any possible leakage and yet admit of the pipe 13 turning with the table 2. The pipe 14 is fixed and connects with a fitting 16 to which the fuel tank (not shown) is connected by means of a pipe 17. In the event of the station being equipped to dispense different brands of motor fuel, the several fuel containers will be connected to the fitting 16 by separate distributing pipes 17 and each of the distributing pipes will be provided with an open and close valve 18. The valves 18 may be of any usual or preferred construction and are preferably so connected as to admit of one valve only being opened at a time, with the result

that the selected brand of motor fuel may be dispensed to the exclusion of the remaining brands. The valves may be separately manipulated by an attendant in the pit and to assist in the selection of the desired brand to be dispensed, indicating means may be provided.

The invention admits of the utilization of a restricted space for servicing motor vehicles since a plurality of machines may be driven upon the turntable and serviced, said machines being turned about during the servicing by rotation of the turntable whereby they may be driven from the station without the necessity of backing out, or manipulating so as to avoid other cars being serviced. The supply tank may be conveniently positioned for filling and is usually stationary. The dispensing pump being mounted upon the turntable, is relatively movable and the pipe connecting the tank with the pump includes a fixed part and a movable part, the two parts being connected by means of a universal joint which is suitably packed to prevent any possible leakage and yet admits of the movable part of the pipe rotating with the turntable. The flexible couplings 11 provide for vertical and lateral play of the turntable without imposing strain upon the distributing pipes. Clips 19, or other suitable fastening means, connect the pipes coupled to the cluster 12 to the turntable and sustain the strain, thereby relieving the flexible couplings 11 of stress and admitting of their allowing for play of the turntable. The pumps 3 may be of any kind generally used for dispensing gasoline at service stations. The numeral 20 represents oil dispensing means for lubrication. The invention is applicable for stations for tire and battery service, or for any purpose catering to the demands of the public. A trap door 21 is provided in the turntable 2 for convenience of entrance to the pit 1 for any desired purpose. The valve mechanism 18 will be so disposed and the size of the pipe between the same and the pumps such that but very little gasoline will stand in the pipe above the valve, so that there will be no appreciable result of difference in quality of gasoline or cost of same when dispensing different grades.

Having thus described the invention, what I claim is:

1. A service station comprising a turntable adapted to receive and support the cars to be serviced, a distributing pipe leading from a source of supply of motor fuel, a dispensing pump mounted upon the turntable, and a connection between the dispensing pump and the distributing pipe including a universal joint to provide for rotation of the turntable.

2. A service station comprising a turntable adapted to receive the cars to be serviced, a distributing pipe leading from a source of motor fuel supply, a plurality of dispensing pumps mounted upon the turntable, and connecting means between the dispensing pumps and the distributing pipe including a universal joint whereby provision is had for rotation of the turntable.

3. A service station comprising a turntable adapted to receive the cars to be serviced, a distributing pipe connected with the source of supply of motor fuel, a plurality of dispensing pumps mounted upon the turntable, and pipes connecting the pumps with the distributing pipe and having connection with the latter by means of a universal joint, the pipes including a flexible coupling whereby provision is had for play of the turntable.

4. A service station comprising a turntable adapted to receive the cars to be serviced, a plurality of distributing pipes leading from a source of supply of motor fuel, a dispensing pump mounted upon the turntable, a pipe connection between the dispensing pump and the distributing pipe, and a valve mechanism for controlling communication between a selected distributing pipe and the pipe connected with the dispensing pump whereby a selected brand of motor fuel may be dispensed.

5. A service station comprising a turntable adapted to receive the cars to be serviced, a plurality of distributing pipes each leading from a source of supply of motor fuel, a plurality of dispensing pumps mounted upon the turntable, a pipe connection between the pumps and the distributing pipes including a universal joint, and a valve mechanism for establishing communication between any selected distributing pipe and the dispensing pump to admit of the dispensation of a particular brand of motor fuel.

6. A service station comprising a pit, a turntable at the top of the pit, means within the pit below the turntable for rotating the turntable, a supply pipe leading into the pit, a plurality of dispensers carried by the turntable, a discharge pipe for the supply pipe consisting of upper and lower sections connected by a universal joint, pipe connections between the upper section of the discharge pipe and the several dispensers, all said connections being within the pit, and valve mechanism to establish flow from the supply pipe into the discharge pipe.

In testimony whereof I affix my signature.

THOMAS D. DUNN, JR. [L. S.]