

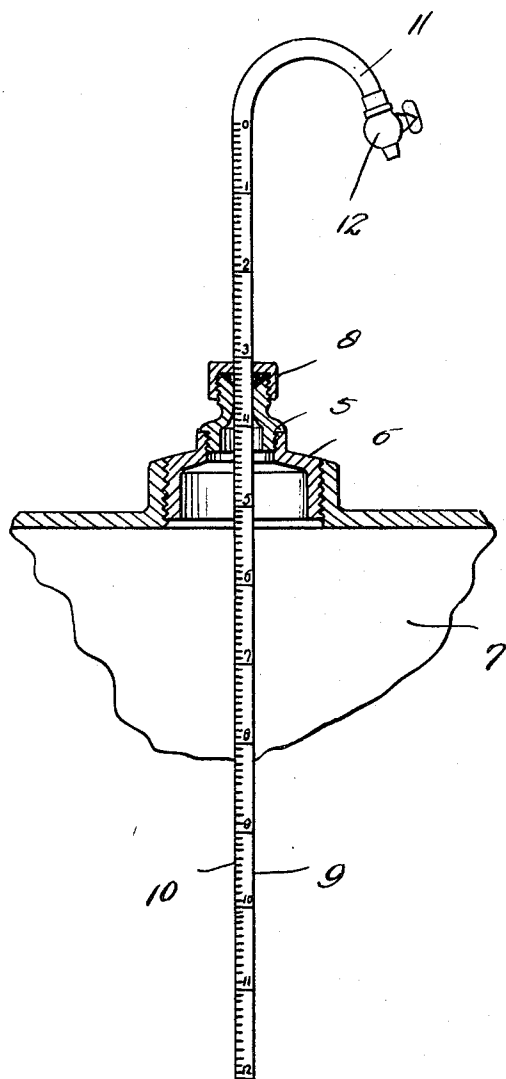
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1,521,668

B. E. BOND

ATTACHMENT FOR GASOLINE TANKS

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR GASOLINE TANKS.

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To all whom it may concern:

Be it known that I, BEN E. BOND, citizen of the United States, residing at De Noya, in the county of Osage and State of Oklahoma, have invented certain new and useful Improvements in Attachments for Gasoline Tanks, of which the following is a specification.

This invention relates to attachments for gasoline tanks, and has particular reference to a device particularly adapted for attachment to the gas dome of tanks of tank cars in which gasoline under pressure is transported or shipped, and by means of which loading and unloading of the tank may be accomplished with facility and without danger from escaping vapors.

Another object of the invention is to provide such an attachment for gas domes of gasoline tanks wherein the means for facilitating loading or unloading of the gasoline further serves for sampling the gasoline, determining the depth of the same within the tank and the like without necessitating removal of the dome cover.

Other objects will appear as the nature of the invention is better understood, and the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing, the view is a fragmentary view of a dome with my attachment applied thereto, the attachment being shown partly in section and partly in elevation.

It is well known that it is highly desirable to provide means for gauging the depth of gasoline that is under pressure within the tank of a tank car without allowing vapors to escape, due to the fact that considerable danger is involved in the escape of said vapors from fire, explosion and the like. It is likewise desirable to enable one to take a sample of the products in the tank without removing the cover or letting the vapors escape. It is still further desirable to determine the amount of water in the tank with the gasoline, and to determine the same without allowing the vapors to escape. It is accordingly an object of the present invention to provide a simple and practical attachment for the gas domes of gasoline tanks, wherein gasoline is stored under pressure, by means of which these facts may be ascertained in a very expeditious manner and without permitting the

escape of vapors from the tank to a noticeable extent.

Referring to the drawing in detail, my improved attachment for carrying out the above objects consists of a packing gland composed of a guide or hollow body 5 that is threaded into a suitable plug 6 provided in the top of the usual gas dome 7 of the tank of a tank car or the like, in which gasoline is stored under pressure. The body 5 has a central opening, and is externally threaded upon its upper end for threaded reception of a packing nut 8 between which and the upper end of the body 5 is disposed a suitable packing as shown in the drawings. Slidably disposed through a central opening in the cap or nut 8, and through the bore of the body 5, is a pipe 9, the outer surface of which is engaged by the packing within the packing gland for preventing escape of vapors therearound, when the nut or cap 8 is tightened. This pipe 9 is provided with any desired form of graduations, as at 10, upon the exterior thereof, and is of such length as to enable the same to be slid through the packing gland until the lower end of the same comes in close proximity to the bottom of the tank. The outer upper end of the pipe or tube 9 may be downturned as indicated at 11 and there provided with a pet cock 12 or the like.

In use, the nut or cap 8 of the packing gland is slightly loosened, so as to permit the pipe or tube 9 to be slid, upwardly until the gasoline fails to flow through the pet cock 12, which has been previously opened, whereupon the level of the gasoline within the tank will be accurately indicated by ascertaining the particular graduation which is disposed at the top of the cap 8 at this time. On the other hand, the tube 9 may be lowered until water begins to flow outwardly through the pet cock 12, and by then noting the particular graduations disposed at the cap or nut 8, the depth of the water in the tank may be determined. In this way, the fact that an excessive amount of water is within the tank may be readily noted, so that such water may be withdrawn from the bottom of the tank in a well known manner for preventing the same from freezing in cold weather which freezing often results in damage to the tank and escape of the gasoline and vapors therefrom. It is also ob-

vious that the gasoline may be readily forced out of the tank through the pipe 9, by placing the gasoline under pressure and forcing the same outwardly to said pipe.

5 From the above description, it is believed that the construction and operation, as well as the advantages of the invention, will be readily understood and appreciated by those skilled in the art.

10 What I claim as new is:

An attachment of the class described comprising a hollow threaded plug adapted to be tapped into the usual threaded filler neck of the dome of a gasoline tank,

said plug having a central threaded hole 15 at its top, a guide threaded into said hole, a measuring and liquid discharge tube slidable through said guide and plug, the upper end of said tube being downturned and provided on its free end with a valve, the 20 exterior of the tube being provided with graduations and the inner end thereof being adapted to depend into the liquid contents of the tank, and a stuffing box carried by said guide and coacting with the 25 tube to provide a fluid tight joint.

In testimony where I affix my signature.
BEN E. BOND.