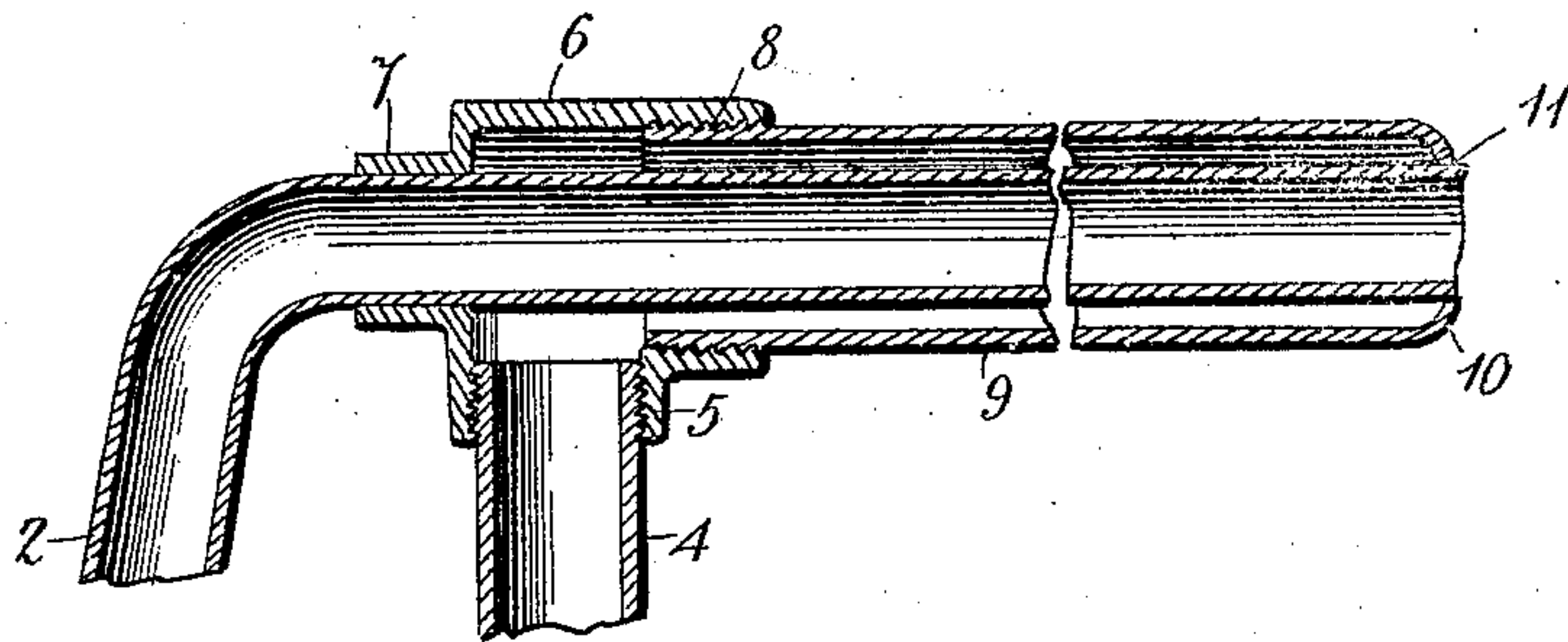
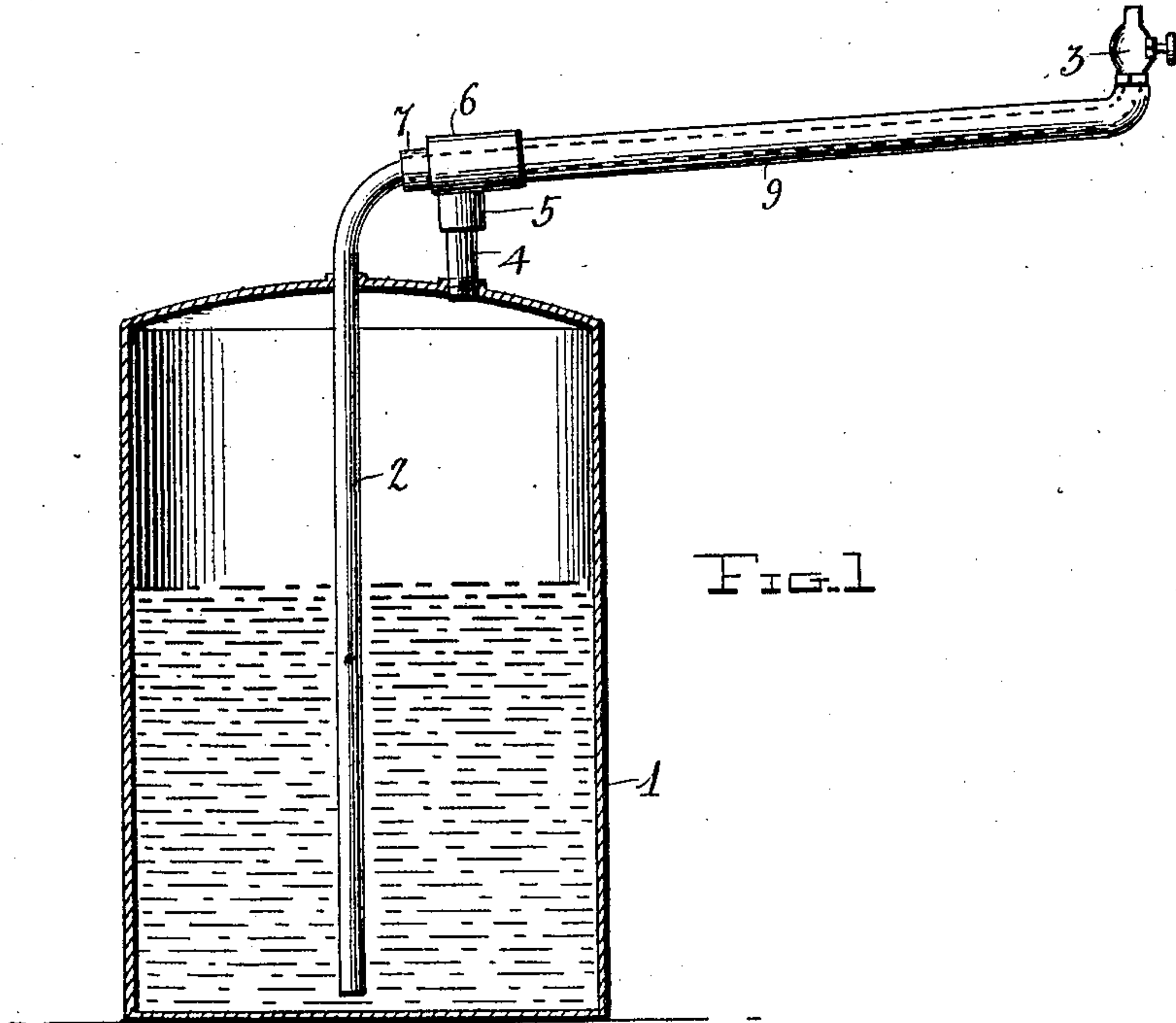


H. C. HANSON.
SAFETY DEVICE FOR PRESSURE TANKS.
APPLICATION FILED APR. 29, 1907.

925,699.

Patented June 22, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

HANS C. HANSON, OF ALBERT LEA, MINNESOTA.

SAFETY DEVICE FOR PRESSURE-TANKS.

No. 925,699.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed April 29, 1907. Serial No. 370,937.

To all whom it may concern:

Be it known that I, HANS C. HANSON, a citizen of the United States, residing at Albert Lea, in the county of Freeborn and State of Minnesota, have invented certain new and useful Improvements in Safety Devices for Pressure-Tanks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to safety devices for pressure tanks and it consists in the construction and arrangement of parts, as will be hereinafter described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a central vertical sectional view of a pressure tank provided with my improved safety device; Fig. 2 is an enlarged detail longitudinal sectional view of my safety device and a part of the feed pipe.

Referring to the drawings, the numeral 1 designates an oil tank partially filled with oil and mounted in the tank and inserted through the top of the same is a feed pipe 2. A valve 3 is provided at the discharge end of the pipe to cut off the supply. The upper part of said tank is charged by a pump or other suitable means (not shown) with compressed air for forcing the oil or gasoline contained in the tank up through the feed pipe to the outer valve from which it may be conveyed to a burner or generator. The numeral 4 represents a vertical pipe which is screwed in the top of said tank 1 at its lower end so as to communicate with the interior thereof. The upper end of said pipe 4 is screwed in the lower internal threaded part 5 of a union coupling 6 having a horizontal inwardly-extending hollow portion 7, and a hollow outwardly-extending internally threaded portion 8 of somewhat greater diameter than said portion 7. In the application of my invention said feed pipe passes through said hollow inwardly-extending portion 7 and said outwardly-extending portion 8 of said elbow and is inclosed between said valve 3 and said elbow

6 by a hollow protecting cylinder 9 screwing into said internal threaded portion 8 of said coupling at its inner threaded end and provided at its opposite end with a wall 10 having a central perforation 11 corresponding with said feed pipe 2 to permit of the passage of the same. Said wall 10 prevents the air from escaping from said hollow protecting cylinder 9 without first breaking the same. It will be observed that part of the feed pipe between said valve and coupling 3 and 6 respectively cannot become broken or damaged without first breaking said hollow protecting cylinder 9 as it is securely inclosed or incased therein and should said hollow protecting cylinder 9 become broken or damaged, the oil will not flow out of the tank as the pressure will be removed from the same, the compressed air passing out of the broken or damaged part of the protecting pipe.

Having thus described my invention, what I claim as new is:—

A safety device of the character described comprising a tank with a central feed pipe therein and passing through the top of the same, an intermediate vertical pipe also secured to the tank and communicating therewith, a union coupling having a horizontally extended reduced end, and also having a plurality of screw threaded portions of different diameters, one of said screw threaded portions being connected to the vertical pipe, a horizontally projecting cylinder also secured to another of said screw threaded portions, said supply pipe being inserted through the union and through its reduced end and also through the horizontal cylinder, so as to provide an air space between said union and said cylinder, and the outer end of said cylinder being closed on said supply pipe, substantially as specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HANS C. HANSON.

Witnesses:

C. L. SWENSON,
A. C. ERICKSON.