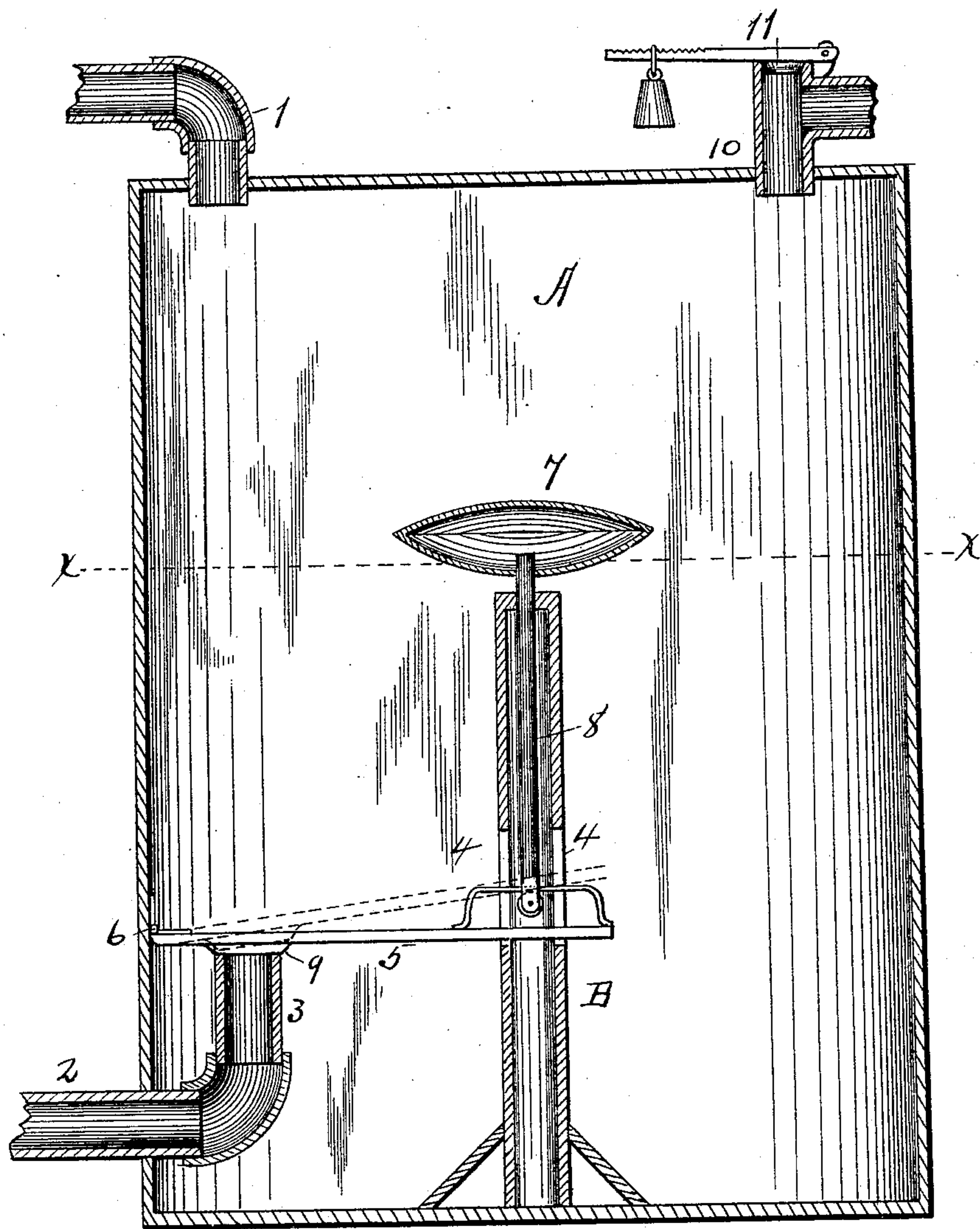


(No Model.)

J. N. BARKER.  
GAS AND OIL TANK.

No. 454,106.

Patented June 16, 1891.



Witnesses  
C. V. Ward  
H. A. Carhart.

James N. Barker Inventor

By his Attorneys

Smith & Denison

# UNITED STATES PATENT OFFICE.

JAMES NEWELL BARKER, OF LIMA, OHIO.

## GAS AND OIL TANK.

SPECIFICATION forming part of Letters Patent No. 454,106, dated June 16, 1891.

Application filed November 3, 1890. Serial No. 370,226. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES NEWELL BARKER, of Lima, in the county of Allen, in the State of Ohio, have invented new and useful  
5 Improvements in Gas and Oil Tanks, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

My invention relates to oil-tanks, and particularly to those devices which are adapted to be used for catching gases which spontaneously arise from oil-tanks.

My object is to produce such a device for the purpose of storing oil at the wells as it is  
15 pumped out and for the purpose of catching the arising gases for illuminating and heating purposes, the working parts of which device will operate automatically at all times and have its working parts covered with oil  
20 to prevent corrosion.

My invention consists in the several novel features of construction and operation hereinafter described, and specifically set forth in the claim hereunto annexed.

25 It is constructed as follows, reference being had to the accompanying drawing.

A is the tank, of any form desired, provided with an inlet-pipe 1 entering from the top, through which the oil enters, and an outlet-  
30 pipe 2 entering near the bottom, through which it is drawn off, the inner end of which is an upturned mouth-piece 3.

B is a tube, of any height desired, erected centrally within the tank, having slotways 4  
35 directly opposite each other in its sides.

5 is a lever hinged or pivoted to one side of the tank, as at 6, and its free end passing into or through the slotway 4 in the tube B.

7 is a float located at the upper end of the  
40 tube B, having a rod 8 attached thereto pass-

ing down through the tube B and connected at its lower end in any suitable manner to the free end of the lever 5. This lever 5 is provided directly over the mouth 3 of the exit-pipe with a cap or valve 9 and adapted to fit  
45 into the mouth 3.

10 is a pipe, through which the gas escapes into any desired place of storage and may be provided with a check-valve. 11 is any ordinary safety-valve.

My invention is operated as follows: The oil is pumped into the tank through the pipe 1 until it reaches the point X X or the float. As the oil comes in, the float then rises with the oil, and this forces up the lever 5 and the  
55 cap 9, allowing the oil to escape through the pipe 2. During this process there is always more or less gas escaping from the tank. This gas passes out through the pipe 10.

What I claim as my invention, and desire  
60 to secure by Letters Patent, is—

The combination, with the tank, the inlet-pipe thereto, and the outlet-pipe therefrom having a vertical upward extension within the tank, of a lever hinged to the inside of  
65 the tank and connected at its inner end to a float, a valve upon the lever in position to register with the mouth of the outlet-pipe, a vertically-mounted tube within the tank, slotted to receive and guide the inner end of the  
70 lever in its vertical movement, and a gas-escape pipe in the top of the tank, provided with a check-valve, as set forth.

In witness whereof I have hereunto set my hand on this 29th day of October, 1890.

JAMES NEWELL BARKER.

In presence of—

A. S. GRAHAM,  
HANNAH WHITE.