

**No. 659,870.**

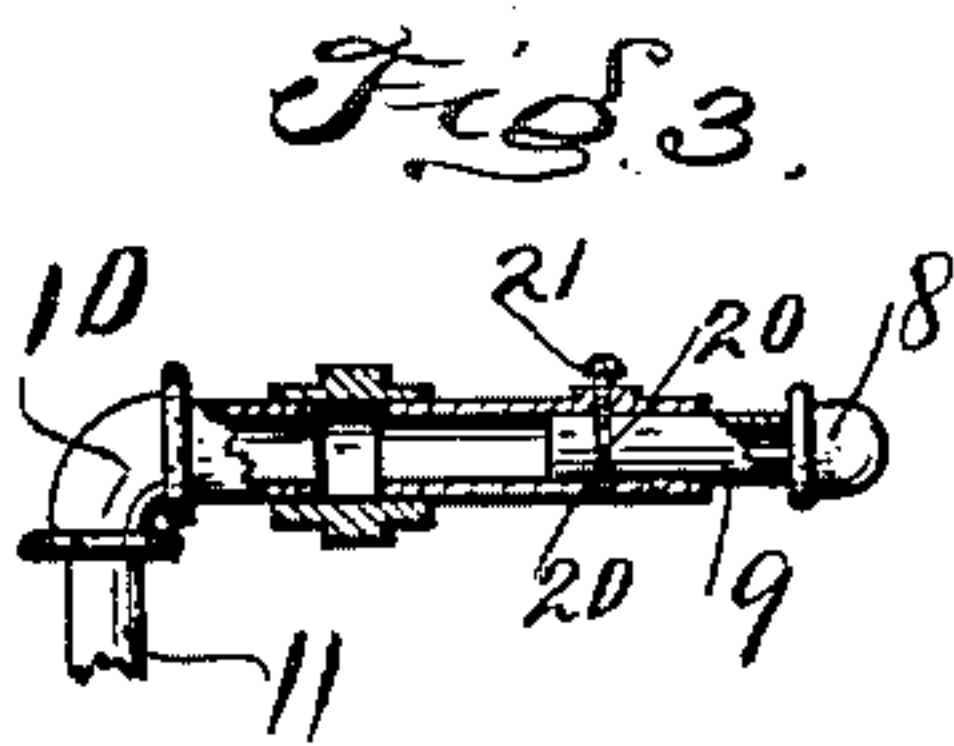
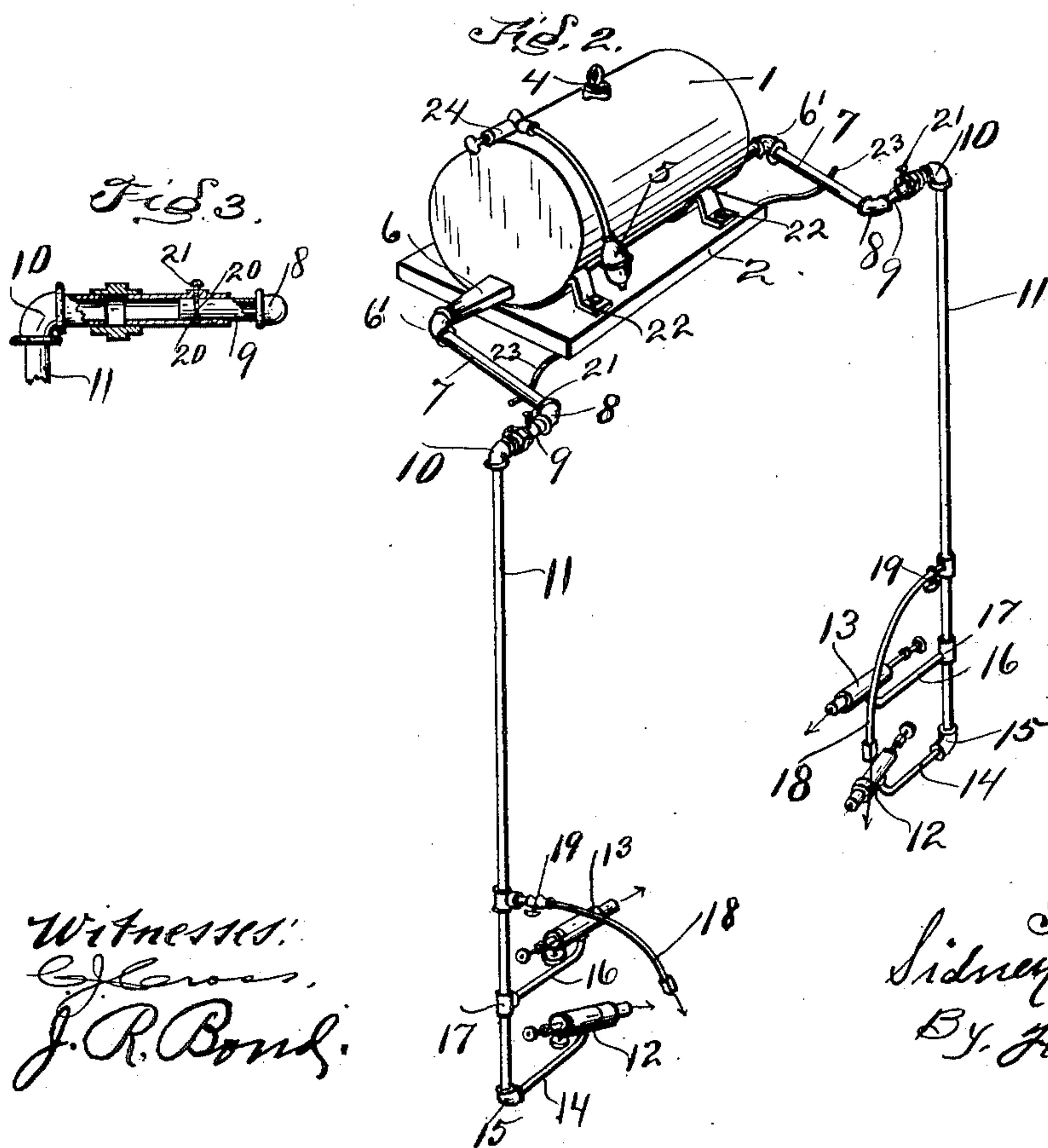
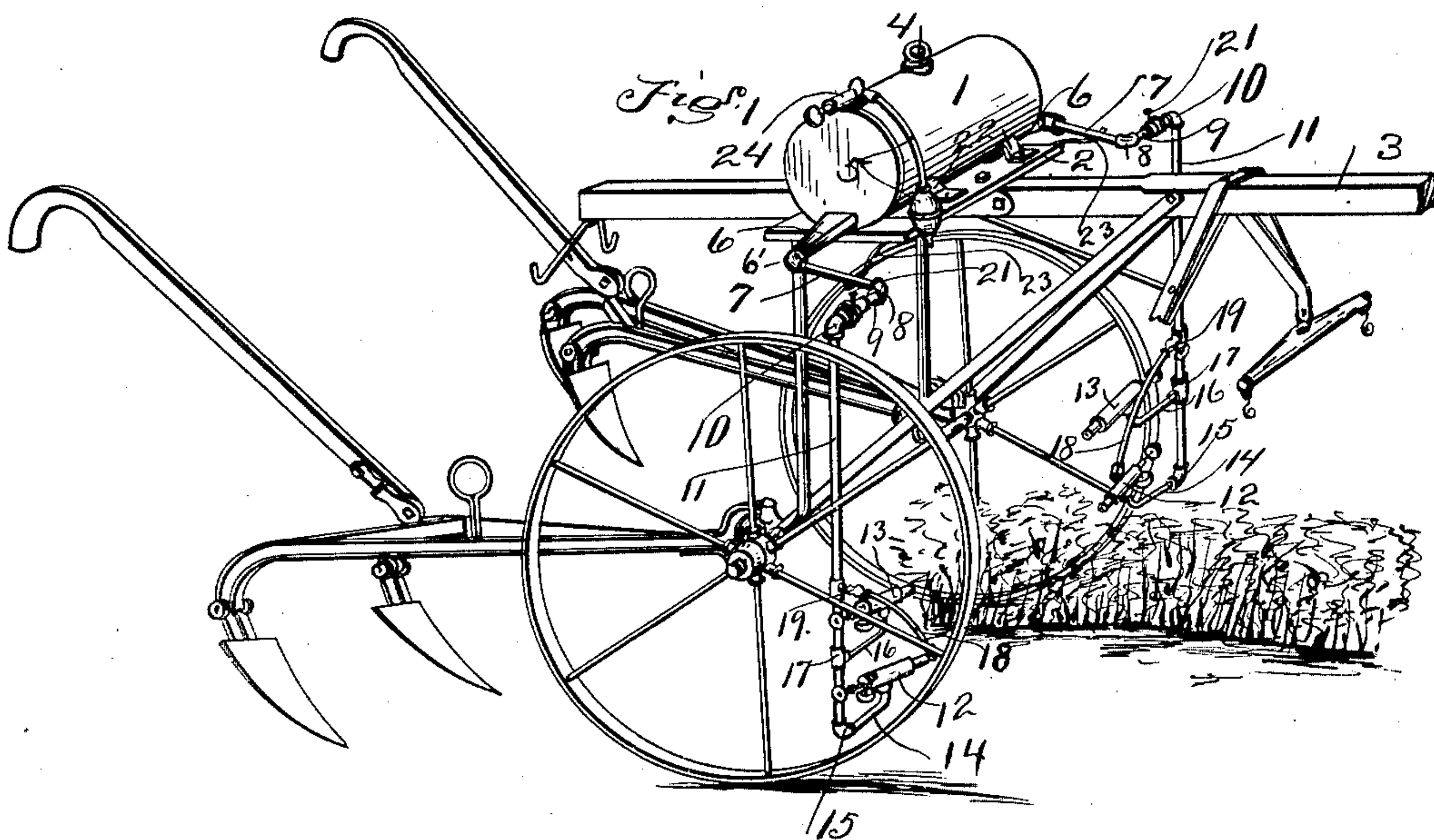
**Patented Oct. 16, 1900.**

**S. B. JONES.**

**INSECT DESTROYER.**

(Application filed May 23, 1900.)

(No Model.)



Witnesses:  
G. Cross,  
J. R. Bond.

Inventor.  
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By H. W. Bond



# UNITED STATES PATENT OFFICE.

SIDNEY B. JONES, OF FIDELITY, ILLINOIS.

## INSECT-DESTROYER.

SPECIFICATION forming part of Letters Patent No. 659,870, dated October 16, 1900.

Application filed May 23, 1900. Serial No. 17,641. (No model.)

*To all whom it may concern:*

Be it known that I, SIDNEY B. JONES, a citizen of the United States, residing at Fidelity, in the county of Jersey and State of Illinois, have invented certain new and useful Improvements in Insect-Destroyers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a view showing my improved device applied to a cultivator. Fig. 2 is a perspective view showing the different parts of the device properly connected and detached from a vehicle. Fig. 3 is a detached view of the down-pipe joint connection.

The present invention has relation to insect-destroyers; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the fount, which is preferably of the form shown, and, as shown, it is connected to the base 2, which base is connected in any convenient and well-known manner to the tongue 3 of a cultivator, or, if desired, a special vehicle may be provided; but this is not absolutely necessary unless it is desired to use the destroyer at a time when it is not desired to cultivate at the same time. The fount 1 is for the purpose of containing gasoline or like fuel, which is provided with the ordinary filling-aperture and cover 4.

For the purpose of producing a pressure upon the gasoline an air pump or injector, such as 5, is employed, by which arrangement a sufficient amount of air can be forced into the fount to produce the desired amount of pressure and at the same time providing a means for commingling air with the gasoline, thereby providing better combustion.

From the ends of the fount 1 extend the pipes 6, which pipes lead from the bottom or lower portion of the fount, as illustrated in the drawings, to which pipes are connected the elbows 6', which in turn are connected to

the forward-extending pipes 7, and to the forward end of the pipes 7 are connected the elbows 8, and to said elbows are connected the short pipes 9, and to said short pipes are pivotally connected the elbows 10, to which elbows are connected the down-pipes 11, which down-pipes are formed of such a length that they will support and hold the burners 12 and 13 in proper position to cause the flames emanating from the burners to come in proper position to destroy the insects upon the vegetation. The burners 12 are connected to the inward-turned pipes 14, which inward-turned pipes are connected to the down-pipes 11 by means of the elbows 15 or their equivalents.

It will be understood that the burners 12 may be supported by a continuation of the down-pipes 11 by bending the lower portion of said pipe at an angle to the down-pipe proper.

Above the burners 12 are located the burners 13, which burners are supported upon the arms 16, which arms are fixed to the down-pipe 11.

It will be understood that a passage-way must be provided between the down-pipes 11 and the arms 16, said arms being formed hollow and a suitable opening formed in the down-pipes 11 to communicate with the hollow arms 16, said hollow arms 16 being held in proper position by means of the T's 17.

For the purpose of distributing the flames emanating from the burners 12 and 13 the blast-pipes 18 are connected to the down-pipes in substantially the same manner that the arms 16 are connected and are formed hollow for the purpose of allowing the passage of fuel through the pipes 18. Each of the pipes 18 is provided with the cut-off valve 19, which cut-off valves are for the purpose of regulating the flow of fuel and at the same time cutting off the supply when desired.

It will be understood that by locating the burners 12 and 13 as shown in the drawings the flames emanating therefrom will be so distributed that the fumes will come in proper contact with the vegetation without injury to the same, and by locating the pipes 18 as shown the fuel emanating therefrom will become ignited, thereby assisting in destroying any and all insects.

In order that the down-pipes may turn back



ward, together with the burners connected thereto, in case that they may come in contact with any obstacle, the pipes 9 are provided with the annular grooves 20 and the set-screws 21, seated into said grooves.

For the purpose of properly holding the fount 1 upon the base 2 the bars 22 are provided, which bars are securely connected to the fount and are bolted to the base 2.

10 If desired, the base 2 may be provided with the lateral-extending arms 23, which lateral-extending arms are for the purpose of supporting the forward-extending pipes 11 and their different attachments.

15 It will be understood that the burners 12 and 13 may be of any desired construction—such as are used for burning fuel, such as gasolene—and I make no special claim as to the construction of the burners within themselves.

20 The fount 1 should be provided with the relief-valve 24, which relief-valve may be located as shown in the drawings or it may be differently located, as the only object is to provide a means for relieving the air-pressure in case it is desired without removing the cap 4.

25 Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a fount connected to

and carried by a traveling vehicle, pipes connected to the fount and down-pipes pivotally connected at their upper ends or portions, and provided with the burners 12 and 13, the burners 13 located above the burners 12 and blast-pipes connected to the down-pipes, substantially as and for the purpose specified. 35

2. In an insect-destroyer a fuel-fount provided with an air pump or injector, a relief-valve, pipes leading from the fuel-tank and extending downward below the fount, and pivotal connections of the pipes located above the burners, and burners connected to the bottom or free ends of the down-pipes, substantially as and for the purpose specified. 40 45

3. The combination of a fount fixed to a base and the base and fount supported upon a vehicle, pipes extending laterally from the fount and provided with forward-extending pipes, down-pipes pivotally connected and the down-pipes provided with burners, one set located above the other, and blast-pipes, all arranged, substantially as and for the purpose specified. 50 55

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SIDNEY B. JONES.

Witnesses:

H. A. HEIDEMANN,  
FRANK PELHAM.