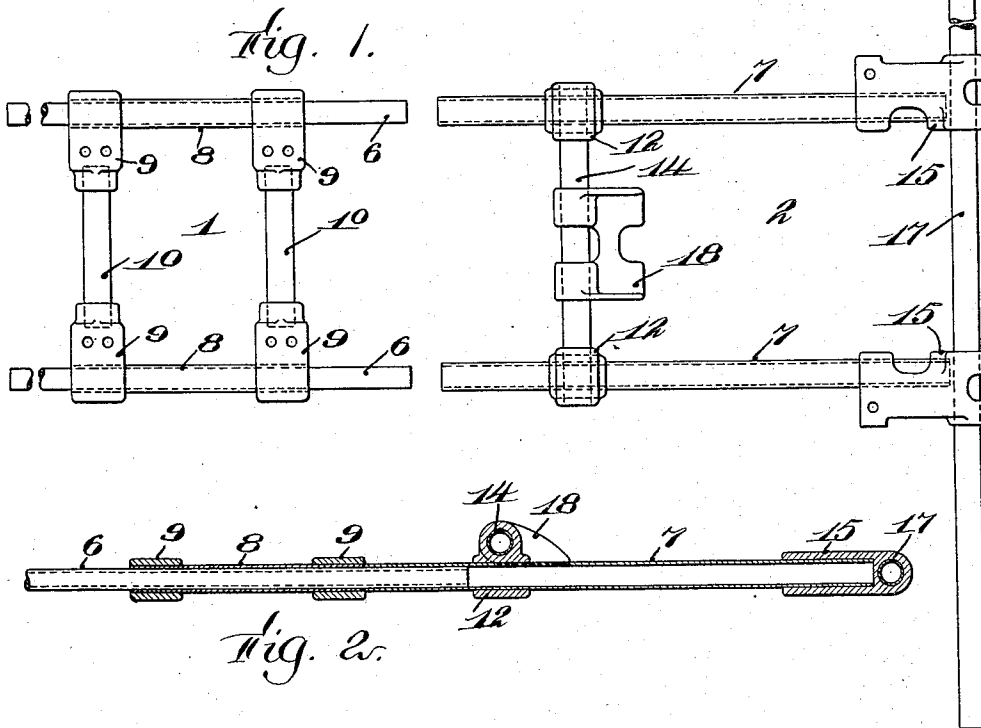
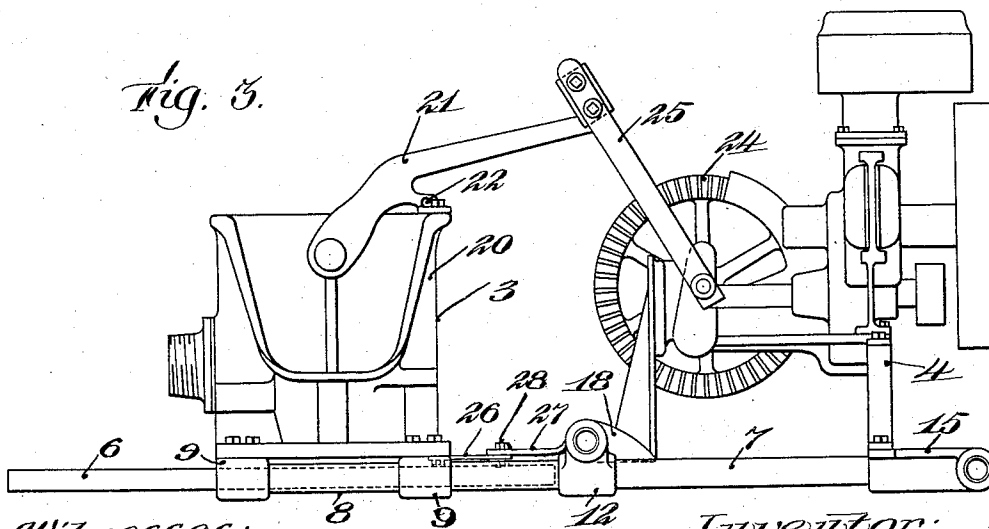


G. D. LOUD,
PUMPING UNIT.
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1,171,797.

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UNITED STATES PATENT OFFICE.

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PUMPING UNIT.

1,171,797.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE D. LOUD, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Pumping Units; and I do hereby 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.

The present invention relates to pumping units and more particularly to portable pumping units which are employed by contractors for temporary use in various places. This type of pumping unit usually consists essentially of a self-contained gasoline motor operatively connected with a pump of the diaphragm type. It is desirable to provide means for conveniently supporting the pumping unit wherever it is to be operated and to easily separate the motor and pump for use in different places, or in order to facilitate their removal from one place to another.

With this end in view the object of the present invention is to provide a separable base for a pumping unit of this type which enables the unit as a whole, or the component parts thereof to be easily transported from one place to another, and further serves to position the motor and pump in operative relation to one another when the two are operatively connected as a single unit.

With this object in view one feature of the invention consists of a separable base for the pumping unit having supporting members which telescope one within the other to align the motor and pump when operatively connected, and arranged as handles to provide for the convenient transportation of the pumping unit or the motor and pump separately when desired.

A further feature of the invention consists in certain novel features of construction, combinations and arrangements of parts hereinafter described and claimed, the advantages of which will be obvious to those skilled in the art from the following description.

In the accompanying drawings illustrating the preferred form of the invention; Figure 1 represents a plan view of the base with the two portions separated from one another; Fig. 2 is a side elevation of the

base with the two members connected in operative relation to one another; and Fig. 3 is a side elevation of the base with the motor and pump mounted thereon and operatively connected.

In the illustrated embodiment of the invention the base consists essentially of two parts indicated at 1 and 2 and serving respectively to support a pump 3 and motor 4. The portion 1 of the base is provided with parallel supporting members 6 which are arranged to telescope within parallel supporting members 7 in the portion 2 of the base. It will be noted from an inspection of the drawings that the supporting members 7 are tubular and have an internal bore sufficiently large to receive the members 6 therein to provide for the proper alinement and positioning of the two portions of the base when the pumping unit is assembled. The portion 1 of the base consists preferably of a plurality of pump supporting brackets 9 secured to longitudinal rods 8 and transverse rods 10 to form a substantially rectangular skeleton frame. The longitudinal rods 8 are hollow and receive the supporting members 6, as shown in the drawings, the members 6 projecting beyond the frame at both ends to form handles. The part 2 of the base is provided with corner brackets 12 which are connected by a transverse support 14 and motor supporting brackets 15 which are connected by a transverse rod 17. The transverse support 14 carries a motor supporting bracket 18 which serves, together with the brackets 15, to support the motor at three points. In making the two portions of the base it has been found convenient to arrange the various supporting members in the proper relative positions and cast the brackets around them, thus forming the brackets and securing them to the tubular members with one and the same operation. The members 6, 7 and 17 project beyond their respective portions of the base and thus conveniently serve as handles by which the different portions of the unit may be conveniently transported from place to place.

As seen clearly in Fig. 3, the pump is of the usual type having a casing 20 detachably secured to the pump supporting brackets in the usual manner, and an operating lever 21 for the diaphragm fulcrumed upon the casing at 22. The motor is of the small portable gasoline type indicated at 4 and

operating a large gear 24 through suitable connections, the gear 24 serving to operate a pitman 25 which is operatively connected with the lever 21 to actuate the same when the motor and pump are positioned in operative relation to one another. The two portions of the base are secured together by a pair of connecting links 26 and 27 secured respectively to the pump and motor and connected by a bolt 28 which may be easily removed to allow the portions of the base to be separated when desired. This construction has many and obvious advantages as it may be manufactured cheaply, is light, owing to the skeleton construction, rigid, and firmly supports the pumping unit in close proximity to the ground. Furthermore, it is easily separated and each portion of the base serves as a convenient means for transporting the two portions of the unit from one place to another, after which they may be readily arranged in operative position. This last feature is of extreme importance as it must be remembered that the weight of the motor and pump together is considerable and in many cases it is much easier to transport the two parts separately than to transport the pumping unit as a whole.

While it is preferred to employ the specific construction and arrangement of parts shown and described, it will be understood that this construction and arrangement is not essential except so far as specified in the claims, and may be changed or modified

without departing from the broader features of the invention.

The invention having been described, what is claimed is:—

1. A separable base for a pumping unit comprising a pump supporting part and a motor supporting part each having parallel supporting members telescoping within one another when the two parts are operatively connected to position the pump and motor in operative relation and projecting to serve as handles for the convenient transportation of the unit when desired.

2. A separable base for a pumping unit comprising a pump supporting part and a motor supporting part each having supporting members secured by transverse rods to form a substantially rectangular skeleton frame, the supporting members telescoping in operative relation and projecting from the frame to serve as handles for the transportation of the unit.

3. A separable base for a pumping unit comprising a pump supporting part and a motor supporting part each having parallel supporting members alined with one another when the two parts are in operative relation, transverse members connecting the parallel supporting members to form a skeleton frame, and brackets secured to each frame for supporting the pump or motor.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."