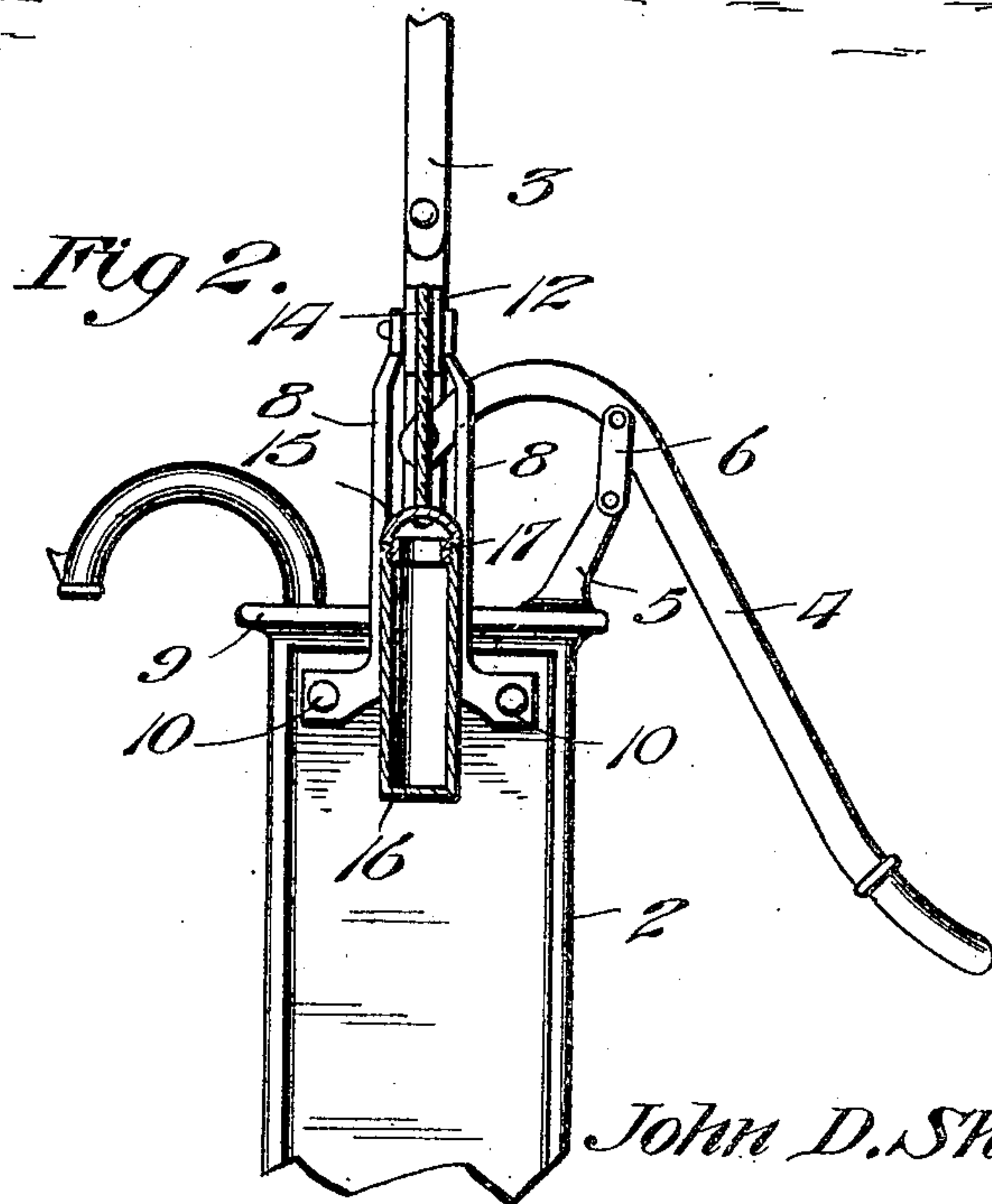
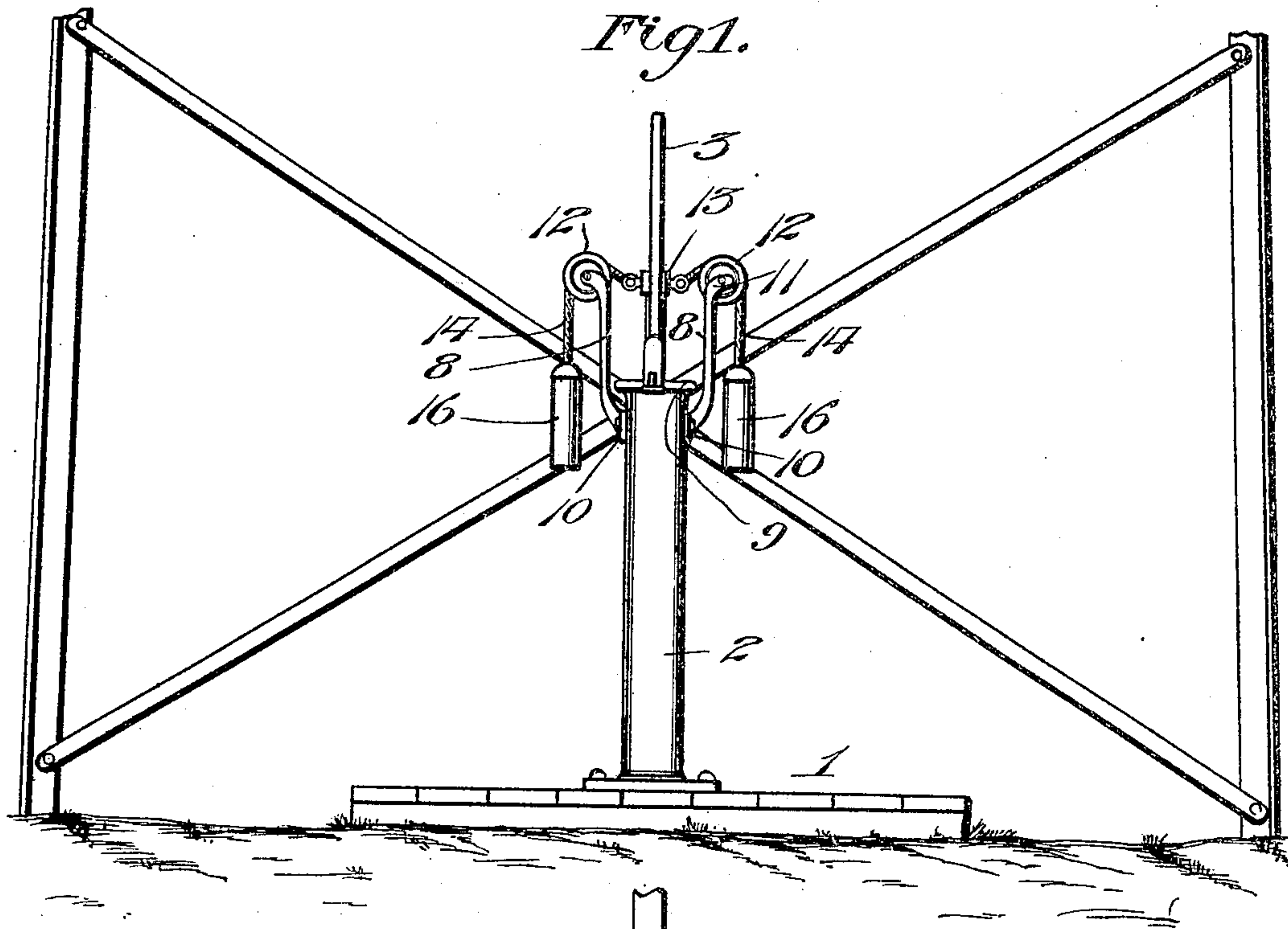


No. 817,675.

PATENTED APR. 10, 1906.

J. D. SHIPMAN.
EQUALIZING DEVICE FOR PUMP RODS.
APPLICATION FILED FEB. 17, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN DAVIS SHIPMAN, OF SAN ANGELO, TEXAS.

EQUALIZING DEVICE FOR PUMP-RODS.

No. 817,675.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed February 17, 1905. Serial No. 246,117.

To all whom it may concern:

Be it known that I, JOHN DAVIS SHIPMAN, a citizen of the United States, residing at San Angelo, in the county of Tom Green and State of Texas, have invented new and useful Improvements in Equalizing Devices for Pump-Rods, of which the following is a specification.

This invention relates to equalizing devices for pump-rods, such as are used in connection with hand or windmill pumps.

The objects of the invention are to improve and simplify the construction of such devices; furthermore, to increase their efficiency in operation and to decrease the expense attending their manufacture.

With the foregoing and other objects in view the invention resides in the combination and arrangement of parts and in the exact details of construction hereinafter described and claimed as a practical embodiment thereof.

In the accompanying drawings, forming a part of this specification, Figure 1 is a view in elevation of an equalizing device constructed in accordance with the invention. Fig. 2 is a view at right angles to Fig. 1.

Like reference-numerals indicate corresponding parts in the two views.

The numeral 1 indicates a platform of a well or cistern, and 2 represents the ordinary well casing or pipe in which is mounted the pump-rod 3. Surrounding the platform 1 is a suitable framework adapted to support a windmill, (not shown,) which serves to aid in the reciprocation of the pump-rod 3. The pump-handle 4 is connected with the pump-rod 3 and is pivotally mounted upon a support 5 on the upper end of the casing 2 by means of a link 6. It will be understood that the pump-handle or the windmill may be used by itself, or both of these devices may be combined in the well-known manner. The construction thus far described is old and well known in the art, and I therefore make no specific claim thereto.

The improvements of my present invention comprise a pair of arms 8, which are curved inwardly at their lower ends and attached to the pump casing or pipe 2 below the cover 9 thereof, as shown at 10. The upper ends of the arms 8 are curved outwardly and forked, as shown at 11, suitable pulleys 12 being journaled between said outwardly-curved forked ends. Mounted upon the

pump-rod 3 is a suitable bracket 13, to which are attached the upper ends of flexible elements 14, which extend over the pulleys 12 and have secured thereto the handles 15 of buckets 16, which are adapted to receive any suitable heavy material, such as lead, iron, and the like. It will be observed from Fig. 2 of the drawings that the handles 15 of the buckets 16 preferably are formed with threaded annular members 17, which are screwed into or riveted to the upper ends of the buckets 16.

The arms 8 are curved inwardly at their lower ends in order to clear the pump-cover 9 and are curved outwardly at their upper ends so as to prevent the buckets from striking thereagainst as they are raised.

It will be observed that the buckets 16 constitute means for equalizing the weight of the pump-rod and water, and thus facilitate the operation of the pump.

The improvements of this invention are extremely simple, durable, and inexpensive in construction, as well as thoroughly efficient in operation.

If it be not desired to construct each of the arms 8 in one piece with a forked upper end, a pair of such arms may be employed for supporting each of the pulleys 12, as illustrated in Fig. 2 of the drawings.

In its precise combination and arrangement of parts and in its exact details of construction the device of this invention constitutes an improvement over prior devices intended for a similar purpose.

Having thus described the invention, what is claimed as new is—

The combination with a pump-pipe and a pump-rod, of arms having inwardly-curved ends attached to the pump-pipe below the upper end thereof and outwardly-curved upper ends, pulleys journaled upon the outwardly-curved upper ends of said arms, flexible elements connected with said pump-rod and extending over said pulleys, handles connected with said flexible elements and having annular members, and buckets connected with the annular members of said handles.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN DAVIS SHIPMAN.

Witnesses:

SILAS IZARD,
C. L. STEELE.