

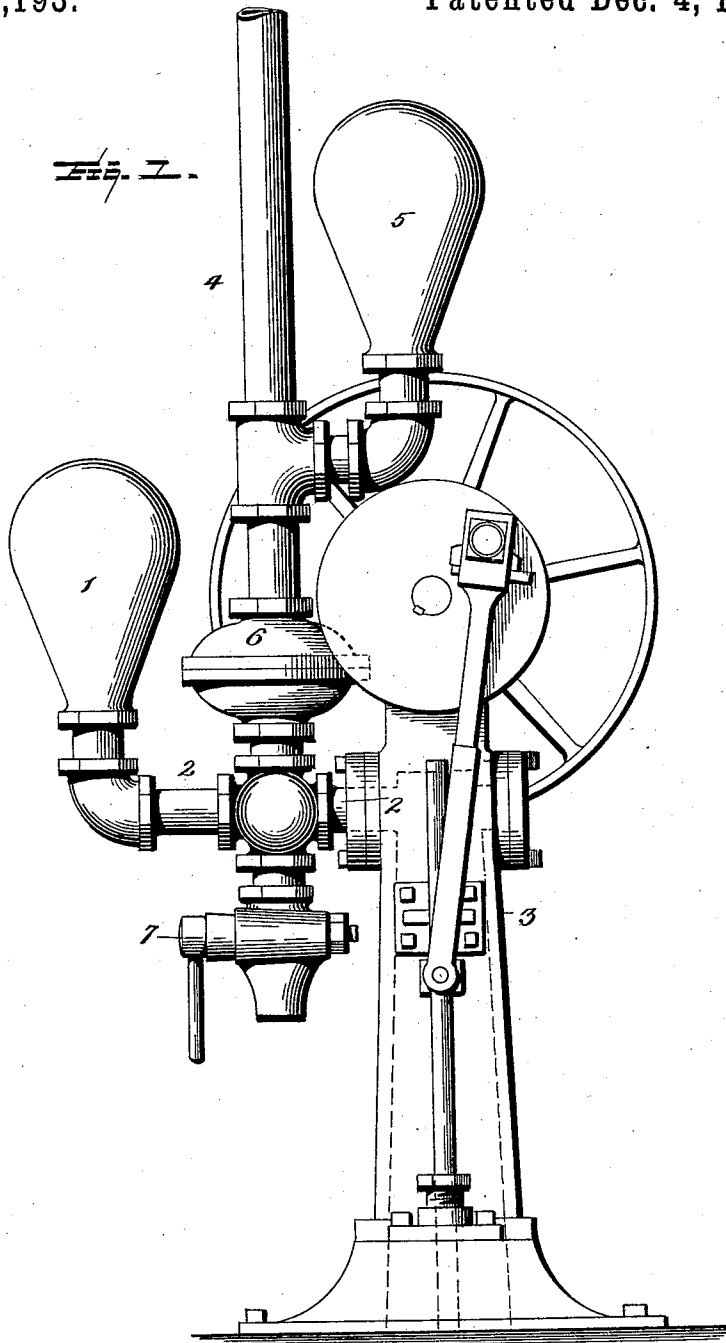
(No Model.)

2 Sheets—Sheet 1.

A. MEUSER.
PUMP ATTACHMENT.

No. 530,193.

Patented Dec. 4, 1894.



Witnesses
L. C. Mills.
W. Moffett.

Inventor
A. Meuser
By *Glascock & Co.*
Attorneys.

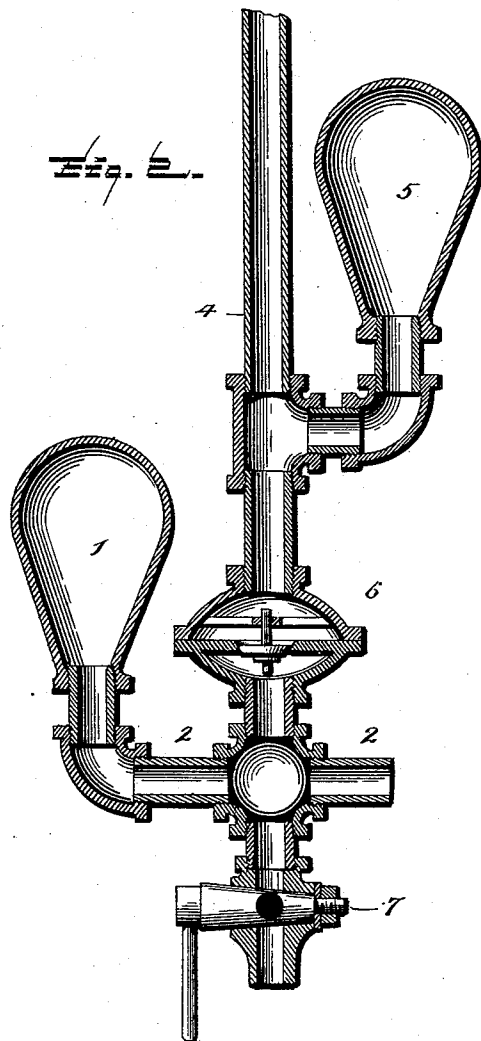
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UNITED STATES PATENT OFFICE.

ALFONGS MEUSER, OF LONGWOOD, FLORIDA.

PUMP ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 530,193, dated December 4, 1894.

Application filed February 11, 1893. Serial No. 461,874. (No model.)

To all whom it may concern:

Be it known that I, ALFONGS MEUSER, a citizen of the United States, residing at Longwood, in the county of Orange and State of Florida, have invented a certain new, useful, and valuable Improvement in Pump Attachments, of which the following is a full, clear, and exact description.

My invention has relation to attachments for pumps, by means of which power is economized in two ways:—first, by enabling speed to be increased and, second, by decreasing jar and friction.

In the accompanying drawings:—Figure 1, is a side view of a pump having my invention attached thereto. Fig. 2, is a sectional view of the attachment.

The invention is described as follows:

It consists of a primary air chamber 1, connected by a suitable pipe 2, with the outlet of the pump 3. Said pipe 2, is preferably horizontal and connects with a perpendicular pipe 4. Thus the primary air chamber 1, is connected with pipe 4. Pipe 4, is provided with a secondary air chamber 5, suitably connected. The outlet of the chamber 5, is above the top of the chamber 2. Pipe 4, is also provided with a check valve 6, which is located between the connection of air chamber 5, and the connection of air chamber 1. This valve allows the fluid to pass up but does not permit its return. The pipe 2, may be provided with the draw off cock 7. As the piston in the pump rises the water or other fluid is forced into the primary air chamber 1, then up through the valve 6, into a second

ary air chamber 5, and up out of pipe 4. As the fluid enters the air chambers the air therein is compressed. At the end of the stroke of the piston the check valve 6, closes and takes the weight of the superincumbent water off the pump valve and while the piston is descending the air compressed in the secondary air chamber 5 will expand and force the water in an even and continuous flow out of the pipe 4. As there will be less water weight on the air in chamber 5, expansion will take place first in that chamber; and when this pressure is sufficiently exhausted the valve 6, will rise and the expansion of air in chamber 1, will act on the new supply of water, furnished it by the return stroke of the piston in the pump.

This attachment may be applied to any style of pump, the one shown in the drawings being used simply as an example.

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

An attachment for pumps consisting of a pipe adapted to connect with the pump, primary and secondary air chambers connected to said pipe, a check valve located in said pipe between the connections of the said air chambers, substantially as set forth.

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

ALFONGS MEUSER.

Witnesses:

JNO. N. SEARCY,

WM. B. Y. WILKIE.