No. 778,163. PATENTED DEC. 20, 1904.

J. M. ALLEN.

PUMP STAND.

APPLICATION FILED JULY 26, 1904.

NO MODEL.

Fig. 3.

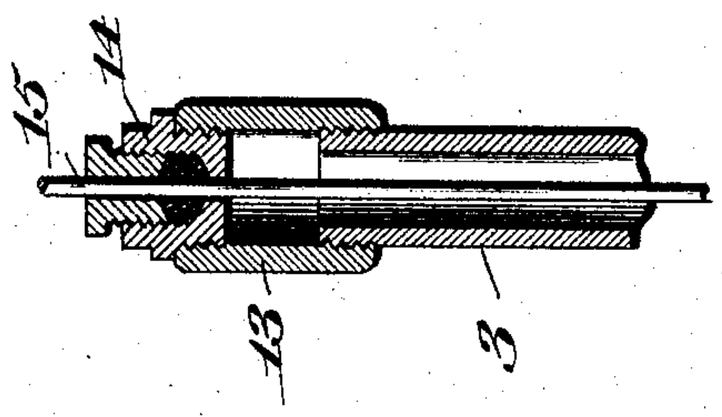


Fig. 2.

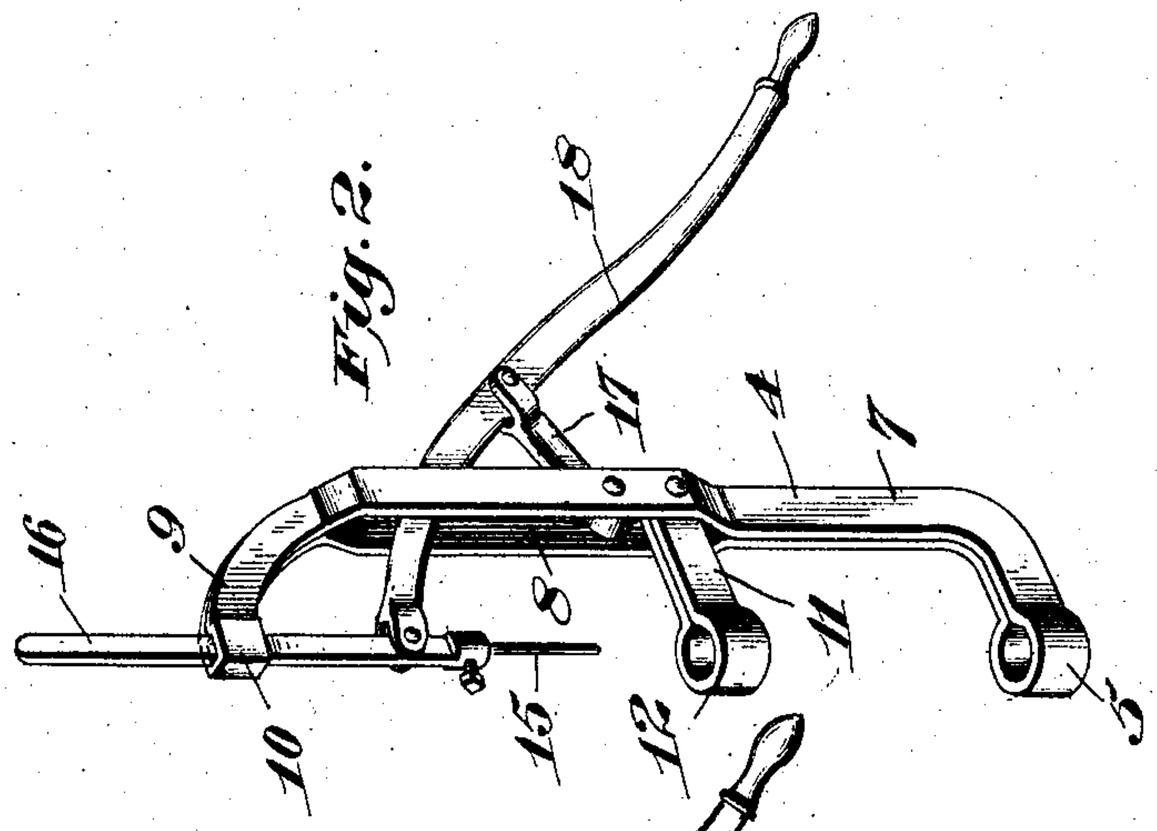


Fig. 1.




WITNESSES:

Elmer Seavey

Nellie Yates

INVENTOR,

J. M. Allen,

BY Davis & Davis,

Attorneys.

No. 778,163. Patented December 20, 1904.

# UNITED STATES PATENT OFFICE.

JAMES M. ALLEN, OF HOLLIS, OKLAHOMA TERRITORY.

## PUMP-STAND.

SPECIFICATION forming part of Letters Patent No. 778,163, dated December 20, 1904.

Application filed July 26, 1904. Serial No. 218,290.

*To all whom it may concern:*

Be it known that I, JAMES M. ALLEN, a citizen of the United States, residing at Hollis, in the county of Greer, Territory of Oklahoma, have invented certain new and useful Improvements in Pump-Stands, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 is a side elevation of the apparatus complete; Fig. 2, a perspective view of the pump-stand detached, and Fig. 3 a detail sectional view of the upper end of the pump-cylinder.

One of the many objects of this invention is to provide a simple pump-stand which may be rotatably mounted upon the pump-head, so that it may be brought to any position desired to permit the pump-handle to be operated conveniently.

Another object of the invention is to provide such a pump-stand adapted to be supported entirely on the pump-head in such a manner that it may be readily attached or removed therefrom.

To the accomplishment of these objects and such others as may hereinafter appear the invention consists of the parts and combination of parts hereinafter fully described, and particularly pointed out in the appended claims, reference being had to the accompanying drawings, forming a part of this specification, in which the same reference characters designate like parts throughout the several views.

Referring to the various parts by numerals, 1 designates the stand-pipe, whose lower end extends into the well or other source of supply and to whose upper end is connected a four-way coupling 2. In the upward-extending member of this coupling is secured the lower end of a pump-head 3. It is of course to be understood that this pump-head may be of any desired diameter and of suitable length.

Rotatably mounted on the pump-head is the pump-stand 4, which is adapted to support the pump-handle and whose upper end forms a guide for the piston-rod. This stand may be made of any suitable material, but is preferably formed of a bar of strap-iron, which is bent midway its ends to form the cylindrical sleeve 5, the two portions of the bar being then brought close together to form the lower horizontal bar 6 and the vertical bar 7. About midway the ends of the vertical bar the two members or parts of the bar are slightly separated, as at 8, to form a guide-passage for the upper part of the handle and for the handle-supporting link. Near the top of the vertical bar of the stand the two members are brought together and are curved forward to form the upper horizontal portion 9 of the stand. The forward end of said upper horizontal portion is formed into a vertical rectangular sleeve 10 to receive and guide the pump-rod. In the lower end of the guide-passage 8 is riveted or otherwise rigidly secured a forward-extending supporting-arm 11, whose free end is formed into a guide-sleeve 12. The guide-sleeves 5 and 12 are adapted to fit the pump-head 3 and to permit the pump-stand to rotate freely on said head. The lower sleeve 5 is adapted to rest on the upper end of the coupling 2, and, if desired, it may be provided with a set-screw by which the stand may be secured to the pump-head against rotation. On the upper end of the pump-head is secured a cap 13, which retains the pump-stand in position on said head, and in the upper end of this sleeve is secured a plug 14, which closes said sleeve and forms a guide for the piston-rod 15. The upper end of this piston-rod is connected to the lower end of the pump-rod 16, said pump-rod extending through the guide-sleeve 10. Pivotally supported at its lower end in the guide-passage 8 is an upward and outward extending link 17, to the upper end of which is pivoted a handle 18, said handle being connected at its upper forward end to the pump-rod 16. The rod 16 may be either the pump-rod of a windmill or it may be the usual rod of an ordinary hand-pump, as the exigencies of the case may require.

From the foregoing it will be readily understood that the pump-stand may be freely rotated on the pump-head to bring the handle to the desired position and that this rotation of the pump-stand will rotate the piston

in the pump-cylinder. One great advantage of rotatably mounting the pump-stand is that the pump-handle will not be bent or broken by horses or cattle contacting therewith, as is often the case where the pump-stand is rigidly mounted and where the pump is used near a watering-trough. Another advantage is that the rotation of the piston in the cylinder will prevent uneven wearing of the piston and the cylinder, as is obvious.

A pipe 19 may be connected to the coupling 2 to supply a watering-trough, this pipe being preferably provided with a valve 20. Another pipe, 21, may be connected to the other member of the coupling 2 to supply water to a tank or for any other purpose desired.

It is of course to be understood that the pump-stand may be made in any suitable manner and that it may be formed of cast or malleable iron, as desired.

It will be apparent to those skilled in the art that various mechanical embodiments of the invention are possible, and I therefore do not wish to be limited to the exact arrangement and construction shown.

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

1. A pump comprising a vertical head, a pump-stand freely rotatable thereon and formed with two guide-sleeves adapted to fit the pump-head and an upper guide-sleeve adapted to receive the pump-rod and a vertical part connecting said sleeves, said vertical part being formed with a guide-passage, a handle-supporting link pivoted in said guide-passage, a handle pivoted on said link and extending through the guide-passage, its upper end being connected to the pump-rod, a sleeve secured on the upper end of the pump-head and serving to retain the pump-stand in position, and a cap secured to the top of said sleeve and serving to close said sleeve and form a guide for the piston-rod.

2. A pump comprising a vertical cylindrical pump-head, a pump-stand rotatably mounted thereon and formed of a bar of strap-iron bent midway its ends to form a sleeve adapted to fit loosely upon the pump-head, the two portions of the bar being brought close together to form a lower horizontal part and an upward-extending vertical part, the two members or parts of the bar being slightly separated to form a vertical guide-passage, the upper end of said bar being bent forward to form an upper pump-rod guide-sleeve directly over the lower sleeve, a horizontal bar secured rigidly in the guide-passage and formed at its free end into a sleeve to loosely fit the pump-head whereby the pump-stand will be freely rotatable on the pump-head, a link pivoted at its lower end in the guide-passage through the pump-stand, a handle pivoted in the upper end of said link, and a pump-rod connected to said handle and extending through the upper guide-sleeve of the pump-stand.

3. A pump-stand consisting of a bar of strap-iron bent midway its ends to form a sleeve adapted to fit loosely over the pump-head, the two portions of the bar being brought close together to form a lower horizontal part and an upward-extending vertical part, the two members or parts of the bar being slightly separated to form a vertical guide-passage, the upper end of said bar being bent forward to form an upper pump-rod guide-sleeve directly over the lower sleeve, a horizontal bar secured rigidly in the guide-passage and formed at its free end into a sleeve to loosely fit the pump-head whereby the pump-stand will be freely rotatable on the pump-head, a link pivoted at its lower end in the guide-passage through the pump-stand, and a handle pivoted on the upper end of said link.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 8th day of July, 1904.

JAMES M. ALLEN.

Witnesses:
S. J. JONES,
J. A. FOGG.