

N. WEARE.

Oil-Well Pumps.

No. 131,800.

Patented Oct. 1, 1872.

Fig 1

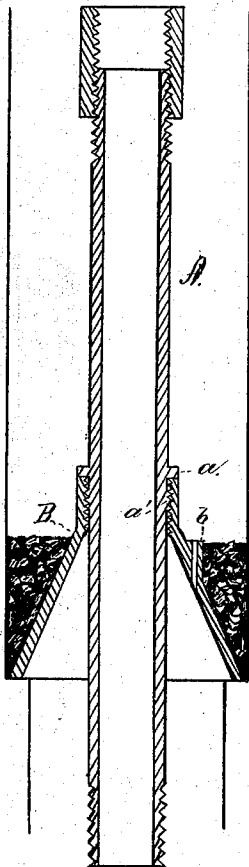
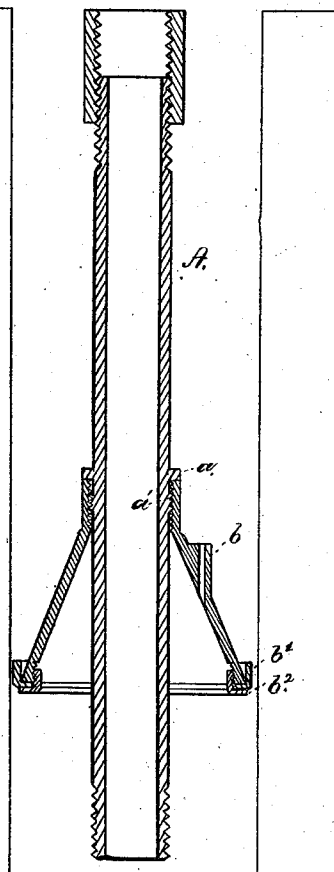


Fig 2



Witnesses.
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UNITED STATES PATENT OFFICE.

NATHAN WEARE, OF MARIETTA, OHIO.

IMPROVEMENT IN OIL-WELL PUMPS.

Specification forming part of Letters Patent No. 131,800, dated October 1, 1872.

To all whom it may concern:

Be it known that I, NATHAN WEARE, of Marietta, in the county of Washington and State of Ohio, have invented a new and useful Substitute for Seed-Bag in Oil-Well Pumps; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention is designed as a substitute for the seed-bag used in oil-well pumps; and consists, mainly, in the employment, in connection with the well-tube, of a bell-shaped device, which fills the bore of the well and prevents the descent of sediment, &c., below it.

In the drawing, Figures 1 and 2 represent sectional elevations of my improved device.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents a section of the well-tube, which is provided with a collar, *a*, having a threaded portion, *a'*, as shown. B represents the bell-shaped device, which is employed as a substitute for the seed-bag. It may be secured to the tube A in any proper manner, but is preferably constructed with a threaded portion, adapted to screw onto the threaded portion of the collar *a* upon the tube. It is adapted from its shape and size to rest with its lower edge upon a shoulder in the bore of the well, located at any proper point. When thus arranged a tight joint is formed in a short time by the falling of the sediment, so that the oil-bearing rock is protected from the inflow of water. By means of this construction and arrangement, also, the pump is supported from below instead of being entirely suspended from clamps at the top. *b* represents a projecting socket, upon one side of the device B, which communicates with its interior, and is adapted to receive the end of pipe, by means of which gas collecting in the

well may be conveyed away to any desired point and utilized; or, if desired, steam may be thereby introduced into the well for the purpose of dissolving any paraffine which may accumulate therein.

In cases where there is no offset or shoulder in the well a cup, *b'*, of leather or other proper material is employed, which is secured to the lower end of the device B, preferably by means of a screw-collar, *b''*, as shown. As this cup, if of the proper size, will fit the bore of the well quite accurately the fall of sediment will soon make a tight joint by means of which the well below will be protected.

The advantages of the described invention are quite marked. The well-tube is supported partially from below instead of entirely from above. The well below the device is protected from the inflow of water. The gas collecting in the well may be easily conveyed away and utilized, or steam may be introduced to dissolve the accumulated paraffine. By means of the cup and flange the device may be located at any point regardless of an offset or shoulder.

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

1. The combination of the tube A and device B, the latter being adapted to rest upon a shoulder in the well and support the tubing, substantially as described.

2. The device B provided with the socket *b* for the reception of a pipe, as described.

3. The combination of tube A with the device B having the leather cup *b'*, as described.

4. The combination of the tube A with collar *a*, device B, with socket *b*, and cup *b'*, as described.

This specification signed and witnessed this 6th day of May, 1872.

NATHAN WEARE.

Witnesses:

D. M. JONES,

W. H. JOHNSON.