

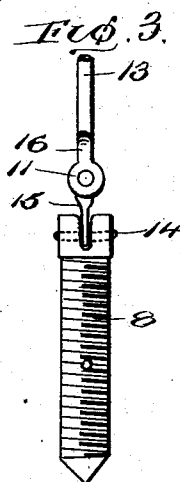
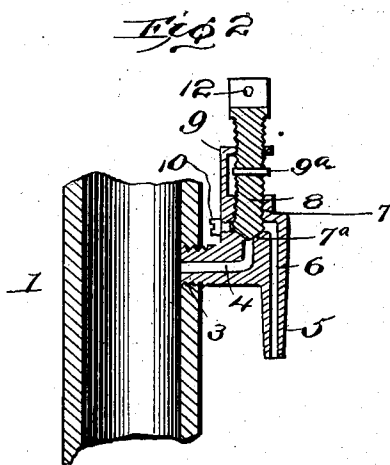
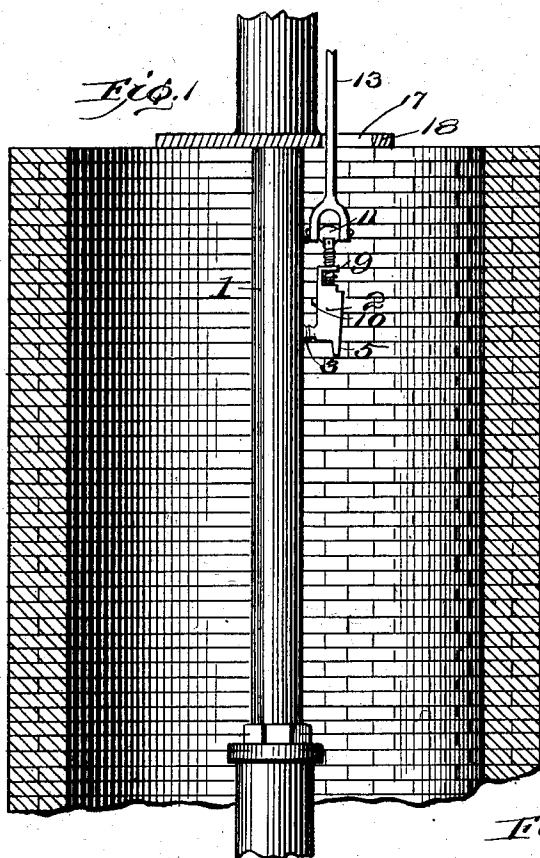
No. 739,480.

PATENTED SEPT. 22, 1903.

G. H. DAVENPORT.
PUMP ATTACHMENT.

APPLICATION FILED MAY 26, 1903.

NO MODEL.



Witnesses

J. M. Fowler Jr.
C. S. Frye

Inventor

George H. Davenport

By

W. J. Fitzgerald & Co.

Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE H. DAVENPORT, OF CHADRON, NEBRASKA.

PUMP ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 739,480, dated September 22, 1903.

Application filed May 26, 1903. Serial No. 158,892. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. DAVENPORT, a citizen of the United States, residing at Chadron, in the county of Dawes and State of Nebraska, have invented certain new and useful Improvements in Pump Attachments; 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.

My invention relates to pump attachments; and it consists of certain novel features of construction and combination of parts, the preferred form whereof will be hereinafter clearly set forth, and pointed out in the claim.

The object of my invention, among others, is to provide means for discharging the water in the upper end of a pipe-stock, whereby all water will be removed to or below the freezing-point.

A further object of my invention is to provide means for discharging the water without disturbing the curbing of the well-cistern or the like.

Other objects and advantages will be hereinafter made clearly apparent, reference being had to the accompanying drawings, which are made a part of this application, and in which—

Figure 1 shows a side elevation of a pump provided with my attachment. Fig. 2 is a detail of my attachment in longitudinal section, while Fig. 3 shows a detail of the threaded valve or pin provided with a limiting device or stop to prevent said valve or pin from being casually withdrawn from its seat.

The various elements of my invention and cooperating features will for convenience be designated by numerals, the same numeral applying to a similar part throughout the several views.

Referring to the numerals on the drawings, 1 indicates a pump-stock, of the usual or any preferred construction, which is provided at a part below the freezing-point with my improved water-releasing valve, comprising the body portion 2 and having a threaded anchoring-terminal 3, designed to be seated in a suitable aperture provided in the pump-stock, said body portion having a tubular bore throughout its entire length and throughout

the length of the threaded branch or terminal 3, as indicated by the numeral 4. The body portion of the valve 2 is also formed with a depending branch 5, which is tubular in form, the tubular bore 6 therein registering with or being a continuation of the bore 4 in a contiguous part of the body of the valve. The bores 4 and 6 lead into the threaded bore 7, in which is adapted to move longitudinally the threaded pin or valve proper, 8, the upper end of which extends loosely through an opening in the bracket 9, a check-pin 9^a being extended through the stem 8 to prevent casual withdrawal of the point from its operative position. The lower end of the threaded pin or valve 8 is preferably conical, corresponding to the shape of the seat 7^a at the lower end of the threaded bore 7, and it is therefore obvious that when said pin is turned home in its seat said conical end will close communication between the bores 4 and 6 and prevent the escape of water from the pump-stock 1 with which the bore 4 communicates.

For convenience in casting the body portion 2 and forming the bores 4 and 6 therein the bore 6 may be started from the inner side of the body portion 2, slightly above the threaded stem 3, and the entrance or beginning of said hole or bore may be permanently closed by a suitable threaded plug 10 or the equivalent thereof.

The upper end of the threaded valve stem or member 8 is provided with a cross-head 11, pivotally secured in a recess in said head, as by passing a pin through the aperture 12 into the registering aperture in said cross-head 8, whereby the lower bifurcated end of the controlling-rod 13 will rest with its branches upon each end of the cross-head, the upper end of said controlling-rod being provided with a suitable crank arm or handle, whereby it may be easily turned in either direction.

By reference to Fig. 3 it will be seen that the pin 14 is extended through the opening 12 into an aperture in the depending blade 15 of the cross-head 11 and that the branches 16 of the controlling-stem 13 pivotally engage with the branches of the cross-head 11, thus providing a form of toggle-joint which will permit the rod 13 to be moved away from the pump-stock when it is desired to turn the

same, a suitable slotted opening 17 being formed in the base-section 18 of the pump-stock for this purpose.

When the threaded member 8 is raised by properly rotating the same in its threaded bore, it is obvious that the bores 4 and 6 are disposed in communication with each other and that the water within the pump-stock will be discharged therefrom on a level with the bore 4. When, however, the valve-stem 8 is turned securely home in its seat, communication between the bores 4 and 6 will be wholly cut off by the lower end of said stem, thereby preventing the escape of the water until said valve-stem is again elevated. It will thus be seen that I have provided a simple form of safety attachment for pump-stocks, whereby the water in the pump-stock may be easily and quickly removed therefrom below the freezing-point, thus preventing damage to the pump, which would otherwise result.

My attachment may be made of any preferred material and any desired size deemed most suitable for the purpose and being complete in itself may be readily applied to a pump of any character or pattern. I also desire it to be understood that instead of using the form of controlling-rod 13 and cross-head 11 to operate the valve-stem 8, as shown in the drawings, a rod having a wedge-shaped point adapted to take into the slot in the

valve-stem 8 may be employed, or a socket-wrench or the like may be equally advantageously used.

Believing that the advantages and manner of using my improved attachment for pumps have thus been made clearly apparent, further description is deemed unnecessary.

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

The herein-described safety attachment for pumps, comprising a body portion having communicating bores 4 and 6, the threaded bore 7 in the upper end of said body having a seat at its lower end, said bore connecting the bores 4 and 6, a threaded stem fitting said bore 7 and having a conical lower end, a bracket designed to guide said valve-stem into its seat, means to prevent the casual withdrawal of said valve-stem, and a controlling-rod for said stem having a universal or swivel connection with the upper end thereof whereby the stem may be rotated in either direction, all combined substantially as specified and for the purpose set forth.

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

GEORGE H. DAVENPORT.

Witnesses:

WALTER M. BARE,
O. U. LENINGTON.