(No Model.)

E. SAHLAND.

SHOE FOR CISTERN TUBING.

No. 482,812. Patented Sept. 20, 1892.

Fig 1

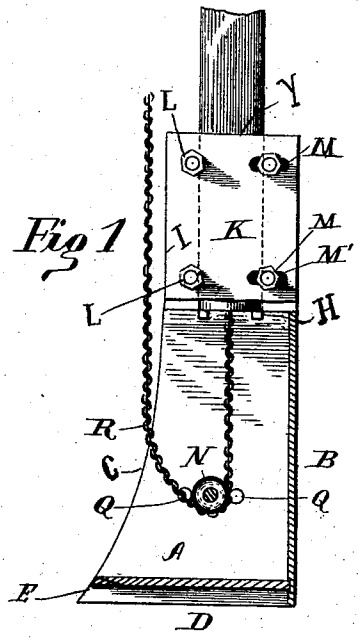


Fig 2

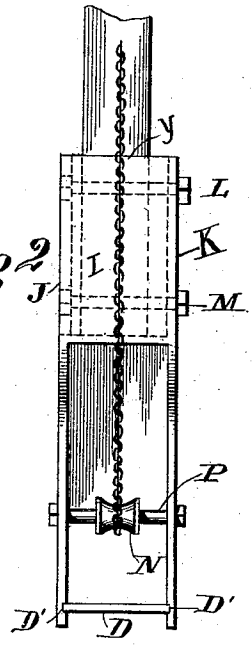
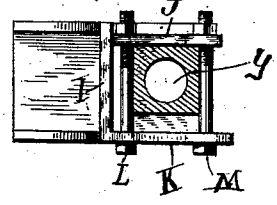


Fig 3



WITNESSES:

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EDWARD SAHLAND, OF QUINCY, ILLINOIS.

SHOE FOR CISTERN-TUBING.

SPECIFICATION forming part of Letters Patent No. 482,812, dated September 20, 1892.

Application filed December 18, 1891. Serial No. 415,511. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SAHLAND, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Shoes for Cistern-Tubing; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a shoe especially adapted for pump-tubing in cisterns, reservoirs, and other like places; and its object is to produce a more convenient, durable, and applicable contrivance than has heretofore been made or used.

To this end my invention consists in the peculiar features and combinations of parts more fully described hereinafter, and pointed out in the claims.

Referring to the accompanying drawings, which illustrate my invention, Figure 1 represents a side elevation, partly in section, to disclose the interior of the shoe. Fig. 2 is a front view, and Fig. 3 a top view.

The reference-letter A represents the base portion of my device, which has a straight back B and sloping front C. It also has a removable bottom D, which slides in horizontal grooves D′ in the sides of the base, and is secured in place by means of a key E. The base portion A is surmounted by a tube-socket having a rigid front wall I and side walls J and K, the wall K forming a continuation of the sides of the base portion A. The side wall J is independent and removable, and is held in place by means of threaded bolts L and M, the latter movable laterally in oblong horizontal slots M′, whereby tubes of various diameters can be inserted. The lower inner faces of the plates J and K are provided with projecting ledges H, upon which the lower end of the tube rests. The rear face and top of the tube-socket *y* are left open for the admission of tubes.

At or near the center of the base portion is placed a roller N, revolving on a stationary shaft P, journaled in holes in the sides of the base portion and made adjustable in relation to the hollow tube above by means of a series of holes Q. The roller is concaved to retain the usual chain R used in pumps of this class.

The shoe is made of iron, so that its weight will enable it to sink to the bottom of the cistern or well in which it is placed.

Having described the preferred form of construction, I will now proceed to describe its operation. The nuts on the threaded ends of the bolts L and M are unscrewed and the movable side J pushed away from the side K. The bolts M are also pushed away from the bolts L and slide in the slots M′. The socket is now ready to receive the tube, which can be placed against the bolts L and side K with its lower end resting on the ledge H. The bolts M are now slid back against the tube and the nuts tightened, thus forcing the plate J against one side of the tube, while the bolts M, side K, and front I hold the other three sides securely in place. As the tube is attached to the shoe, the latter is ready to be lowered into the cistern or well.

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

1. In a shoe for cistern-tubing, a base formed of a hollow casting wider at the bottom than at the top, in combination with a socket portion provided with a movable side or clamping-plate, whereby the tubing is held removably in place, as set forth.

2. In a shoe for cistern-tubing, the combination of a hollow base provided with a movable bottom and a socket portion having a removable side containing oblong slots, as specified.

3. In a shoe for cistern-tubing, a hollow base portion having its lower end wider than the upper end and provided with a roller having an adjustable axis, in combination with a socket portion with an open bottom and a movable side or clamping plate provided with adjustable bolts, as and for the purpose set forth.

4. In a shoe for cistern-tubing, the combination of a hollow cast-metal base surmounted by a socket provided with a movable clamping side and bolts whereby various-sized tubing can be inserted in the manner and for the purpose described.

5. In a shoe for cistern-tubing, the combi-

nation of a hollow metallic base provided with a roller mounted on a shaft adjustable in the base and a socket portion on the base portion, said socket being provided with a removable side, and bolts for clamping said side in the manner and for the purpose substantially as described.

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

EDWARD SAHLAND.

Witnesses:
FRANK FLANG,
FRED. WOLF.