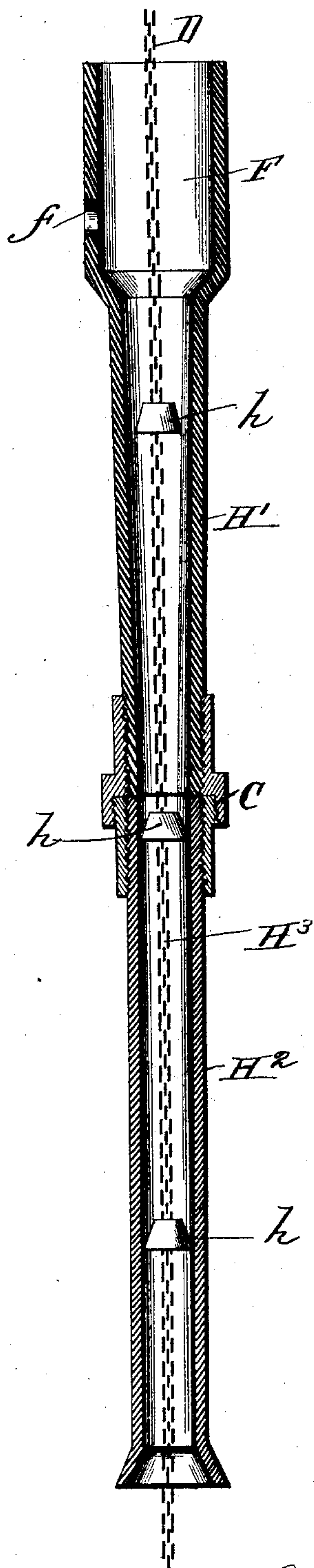


(No Model.)

W. KEGLER.  
PUMP.

No. 362,282.

Patented May 3, 1887.



Witnesses  
*R. C. Laurie*  
*Sarepta Specht*

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*Robt. A. Lacey*

# UNITED STATES PATENT OFFICE.

WILLIAM KEGLER, OF BELLEVUE, IOWA.

## PUMP.

SPECIFICATION forming part of Letters Patent No. 362,282, dated May 3, 1887.

Application filed January 13, 1887. Serial No. 224,245. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM KEGLER, a citizen of the United States, residing at Bellevue, in the county of Jackson and State of Iowa, have invented certain new and useful Improvements in Pumps; 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 drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to chain-pumps, and particularly to that for which Letters Patent were granted me December 8, 1885, numbered 381,889.

The improvement consists in the construction of the pump-stock and in having the bore gradually increasing from five to six feet below the freezing-point to the reservoir at the top from which the discharge leads, as will be more fully hereinafter set forth.

The drawing represents a vertical central sectional view of a pump stock (that shown in my patent above noted) embodying my invention, which has for its object, first, the construction of a pump-stock which will permit the surplus water drawn into the pump-stock by pumping and not discharged from the spout to pass back into the well or cistern, so that the same will be prevented from freezing in the pump-stock around the chain and buckets; second, to devise a simple and effective device (pump-stock) which will permit the buckets to readily run back when the operation of pumping ceases and the windlass is left free for emptying the column of water into the well, and preventing the water from freezing in cold weather or warming in warm weather or summer; third, to contrive a construction of pump-stock having a tapering bore near its top, which will permit the buckets to be slightly expanded in the summer, so

as to more nearly fit the bore the entire length to the point of discharge, and in the winter will allow the buckets to be slightly contracted without impinging against any shoulder or offset in the retrograde or backward motion of the chain.

The pump-stock D, which may be made of wood or metal tubing, the latter being preferable, is enlarged at its upper end, forming the reservoir F, in the side of which the discharge-opening *f* is formed. The bore of the pump-stock increases from the point C, which is several feet below the freezing-point, up to the reservoir or to a point just below the discharge-opening, as shown.

The pump-stock may be of a single length; but it is preferred to have it made in sections, as  $H^1 H^2$ , connected together by the coupling C. The chain  $H^3$ , passing through the pump-stock, is provided at intervals with the buckets *h*, in the usual manner.

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

1. In a chain-pump, the combination, with the chain and buckets, of the pump-stock having its bore gradually increasing near its discharge end from a point some considerable distance below the freezing-point, substantially as and for the purpose described.

2. A pump-stock for chain-pumps, composed of a number of sections, and having the upper end of the top section enlarged and provided with a discharge-opening, and having the bore gradually enlarged from the lower end of said section up toward the head, substantially as shown, and for the purposes set forth.

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

WILLIAM KEGLER.

Witnesses:

W. A. MAGINNIS,  
JOSEPH SCHWIRTZ.