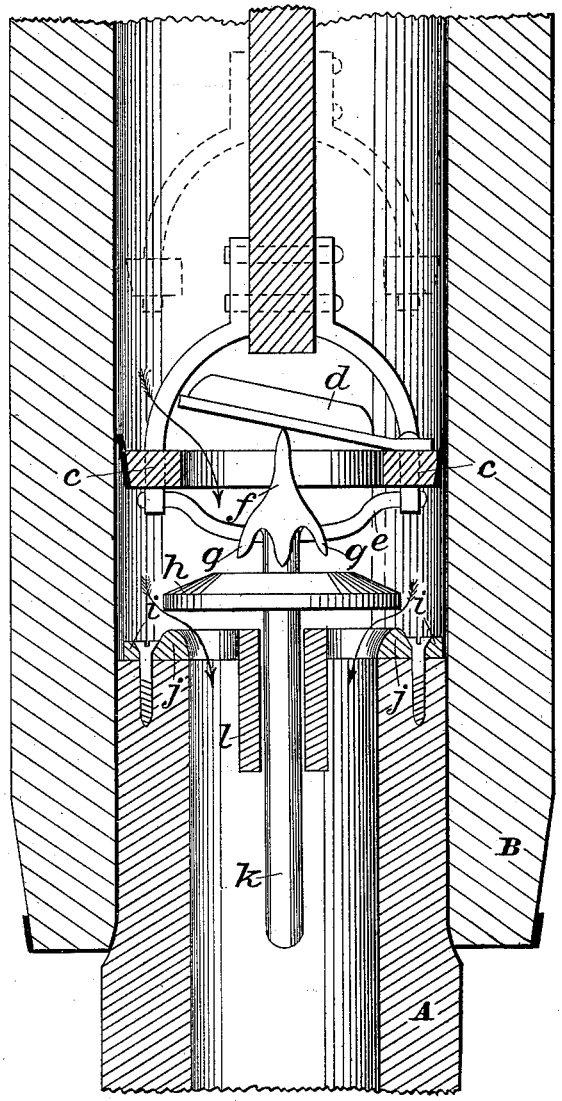
(No Model.)

M. D. TEMPLE.

PUMP.

No. 303,340. Patented Aug. 12, 1884.



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UNITED STATES PATENT OFFICE.

MORRIS D. TEMPLE, OF CHICAGO, ILLINOIS.

PUMP.

SPECIFICATION forming part of Letters Patent No. 303,340, dated August 12, 1884.

Application filed December 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, MORRIS D. TEMPLE, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pumps; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention relates to make and use the same, reference being had to the accompanying drawing, forming a part hereof, and in which the figure represents a central vertical section of a pump barrel, stock, valve-seat, stem, and bucket, the remaining parts being shown in full.

The object of my invention is to construct a pump with a bucket and check-valve, that may be raised from their positions and removed from the pump when needing repairs without disturbing the other parts thereof, and to render this operation easy by providing means for first relieving them from the weight of water which they support.

Like letters of reference indicate like parts.

In the drawing, A represents the pump-stock; B, the pump-barrel; C, the pump-bucket, and *d* its valve.

e is a freely-swinging dependent bail attached to the lower end of the bucket. Said bail *e* is represented as caught under one of a series of hooks, *g*, attached to the stem *k* above the valve *h*. Said stem *k* extends upward and terminates in a point, *f*, a sufficient distance above the hooks *g* to raise the valve *d* when the bucket is depressed enough to catch a hook, *g*, with the bail *e*, as shown. The valve *h* plays upon a valve-seat, *j*, having ears or a flange, *i*, by means of which it is fastened to the pump-stock A. Concentric with the stock A is the stem *k*, which plays in the guide-tube *l*, attached by arms to the valve-seat *j*, in which it works freely, and is made of sufficient length to keep its place under all ordinary circumstances. The bucket works above the point *f* high enough to prevent interference during pumping. When removal of the check-valve is desired, the bucket is lowered until the bail *e* catches under one of the hooks *g*. By this operation the valve *d* is lifted and held up by the point *f*, which is made long enough to project above the seat of the valve *d*, when the bail *e* is hooked to one of the hooks *g*. When the parts are placed as shown, and the bucket C is slightly raised, the valve *h* is thereby lifted from its seat, and a free passage into the well is provided for the superimposed water. Relieved of the weight of water, the bucket and check-valve may be easily drawn up and out of the pump.

What I claim is—

1. A check-valve provided with an upward-projecting point, *f*, and hooks *g*, in combination with a bucket, C, provided with a dependent swinging bail, substantially as specified.

2. A pump-bucket provided with a dependent swinging bail, in combination with a check-valve, *h*, provided with stem *k*, point *f*, and hooks *g*, substantially as specified.

3. A pump-bucket provided with a dependent swinging bail, and check-valve provided with stem *k*, hooks *g*, point *f*, and tube *l*, concentric with the stock, substantially as specified.

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