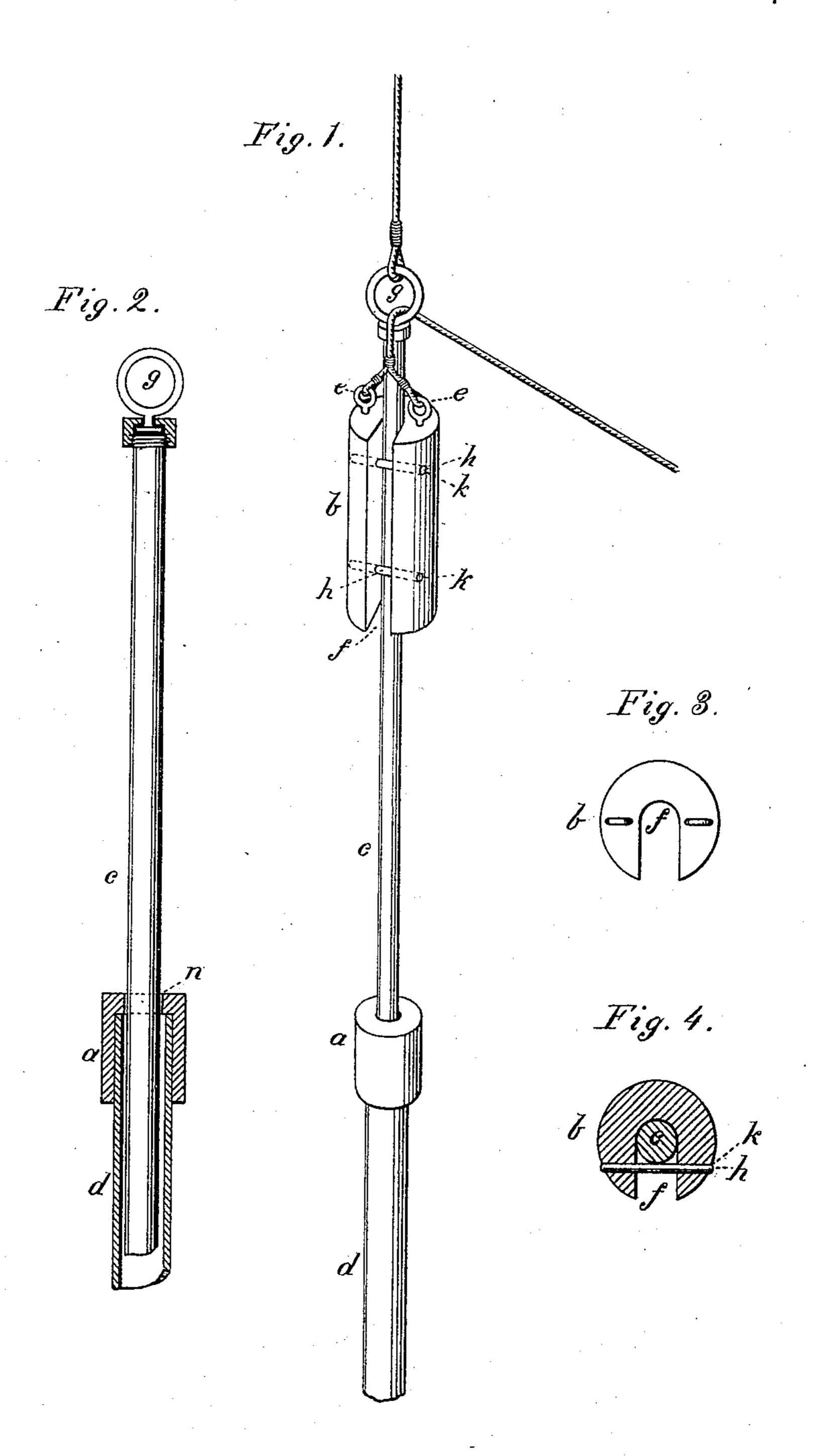
(No Model.)

## W. J. SHERMAN.

DRIVING TUBE WELLS.

No. 267,605.

Patented Nov. 14, 1882.



WITNESSES
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his ATTORNEYS

## United States Patent Office.

WILLIAM J. SHERMAN, OF ST. AUGUSTINE, FLORIDA.

## DRIVING TUBE-WELLS.

SPECIFICATION forming part of Letters Patent No. 267,605, dated November 14, 1882.

Application filed May 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. SHERMAN, a citizen of the United States, and a resident of St. Augustine, in the county of St. John's and State of Florida, have invented a new and valuable Improvement in Driving Tube-Wells; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of this invention in perspective. Fig. 2 is a longitudinal section without the weight. Fig. 3 is a plan view of the slide-weight. Fig. 4 is a cross-section of the slide-weight, taken through one set of holes, in which is shown the removable pin.

This invention has relation to means for driving tube-wells; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings, the letter d indicates the well-tube, and a the anvil-cap, which is recessed on the inside to admit the upper end of the tube. The cap is annular in form, consisting of a ring of iron or steel, and 30 it is made with an internal bearing, n, near its upper end, which engages the end of the tube. The cap thus forms an anvil-surface above the end of the tube and protects the same, preventing it from being battered by the impact 35 of the drive-weight. Fitting loosely in the tube d is the guide-rod c, which extends above the tube; and is provided with a swivel or bearing, g, at its upper end. The drive-weight bis a heavy casting, having a longitudinal cen-40 tral bearing, f, designed to fit loosely on the guide-rod c. This bearing f is made in slot form, opening laterally, so as to be easily placed on the guide rod when the latter is in

position. This recess-bearing f is designed to be closed in front by means of transverse removable pins h, passing through holes k in the weight, and serving to keep the weight on the guide-rod c. The weight is provided with eyebolts e at its upper end, whereby it is lifted.

In operating this device the rod c, having 50 been arranged in the tube, is held or hung in vertical position by means of a rope or chain connecting its upper end to a transverse bar supported above it by any suitable framework. By means of a rope connected to the 55 eyebolts of the weight and running through the swivel-eye g of the rod, or over a pulley above the same, the weight can be lifted on the rod, and then, being allowed to fall, it will drop forcibly on the anvil-cap a, and by its imforce twill force the tube into the ground a certain distance. By a repetition of the blows of the drive-weight the tube can be easily driven into the ground in vertical position.

A tube provided with a cap at its upper end, 65 said cap having a rod extending upwardly therefrom and provided at its upper end with a disk to disengage a lifting-hook from the driving-weight which slides upon the rod, is old, and a construction of this kind is not 70 claimed herein.

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

The combination, with the guide-rod c, hav- 75 ing the swiveled ring g, and the cap a, of the slide-weight b, having the eyes e, lateral slotbearing f, and removable transverse pins h, substantially as specified.

In testimony that I claim the above I have 80 hereunto subscribed my name in the presence of two witnesses.

WILLIAM J. SHERMAN.

Witnesses:
JOHN T. CARR,
BARTOLO F. OLIVEROS.