

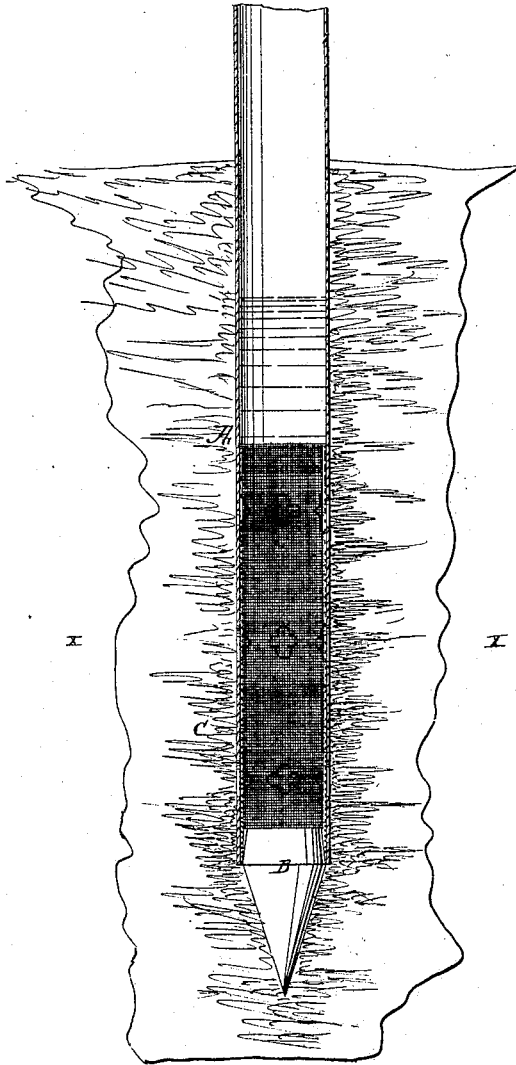
*J. C. & M. V. Campbell,*

*Well Tubing.*

*N<sup>o</sup> 51919.*

*Patented Jan. 9/1866.*

*Fig. 1.*



*Fig. 2.*



Witnesses:

*Wm. Brown  
Geo. Lusch*

Inventors:

*J. C. & M. V. Campbell  
By                      Attys*

# UNITED STATES PATENT OFFICE.

J. C. CAMPBELL AND M. V. CAMPBELL, OF SYRACUSE, NEW YORK.

## IMPROVED MODE OF SINKING WELLS.

Specification forming part of Letters Patent No. 51,919, dated January 9, 1866.

*To all whom it may concern:*

Be it known that we, J. C. CAMPBELL and M. V. CAMPBELL, of Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Sinking Wells; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical central section of the invention. Fig. 2 is a transverse section of the same, the line *x x*, Fig. 1, indicating the plane of section.

Similar letters of reference indicate like parts.

This invention relates to an improvement in the construction of such pumps as are produced by pushing an iron rod down into the ground until water is obtained. The suction-pipe is inserted into the well-hole thus obtained, and in order to enable said suction-pipe to penetrate to the desired depth, it is provided with a pointed plug in its lower end, and the lower part of the suction-pipe is perforated to admit the water to its interior.

In the suction-pipe which forms the subject-matter of this present invention the conical-pointed plug is employed to wedge into the lower part of the suction-pipe a piece of wire-cloth in such a manner that a strainer is obtained which effectually excludes from said suction-pipe all impurities, and at the same time the suction-pipe itself forms a guard for the strainer, preventing it from getting crushed,

and as the conical plug is driven down into the ground it wedges the strainer in tighter and tighter, so that the same is not liable to work loose or get out of order while the suction-pipe is put into its place.

A represents a suction-pipe, made of iron or other suitable material, and intended to be lowered into a well-hole produced by means of an iron rod, as above stated. The lower part of this pipe is perforated with a series of holes, *a*, and its end is closed by a conical-pointed plug, B, which permits the pipe to penetrate the ground and to adjust itself at the desired depth. This conical plug I employ for the purpose of wedging into the lower perforated portion of the pipe A a strainer, C, of wire-cloth or other suitable material. By means of the plug B this strainer is secured and held in place, and by its action all impurities are protected from passing into the suction-pipe.

We do not claim as our invention the application of a conical-pointed plug to the suction-pipe of a pump, such having been described in Letters Patent granted to James Suggett, March 29, 1864, No. 42,126; but

We claim as new and desire to secure by Letters Patent—

The combination of the conical-pointed plug B, strainer C, and pipe A, as and for the purpose set forth.

J. C. CAMPBELL.  
M. V. CAMPBELL.

Witnesses:

J. HUNT,  
R. H. GARDNER.