

I. A. Livingston,

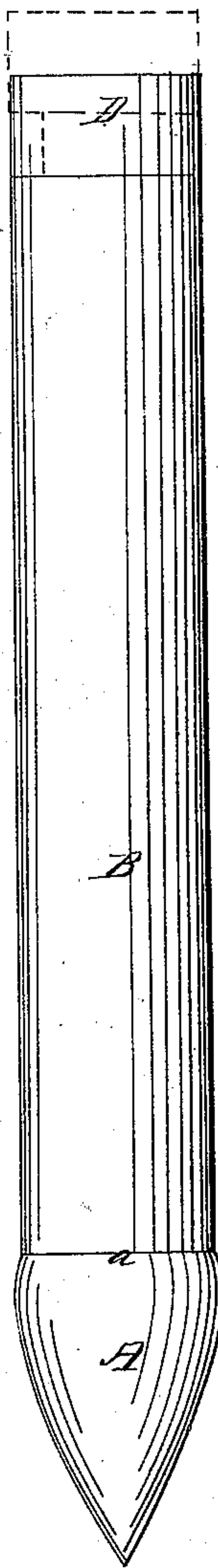
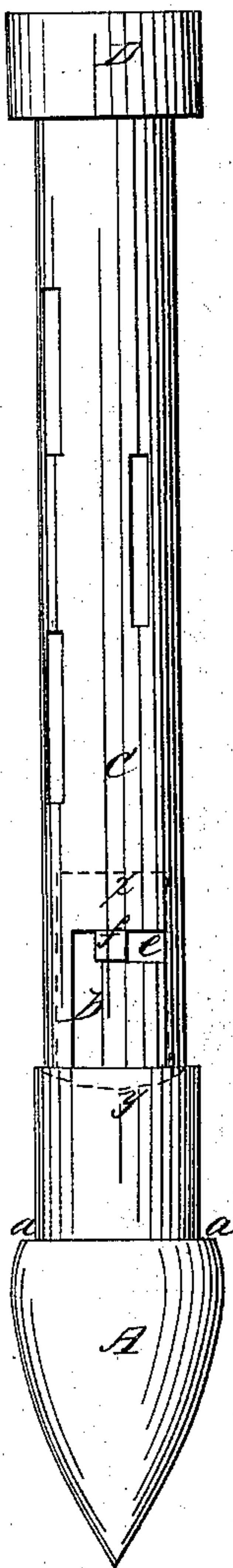
Well Tubing.

N^o 66,506.

Patented July 9/1867.

Fig. 2.

Fig. 1.



Witnesses.

Paul Lloyd
Andrew Carson

Inventor.

Ira A. Livingston
by Attorneys
J. B. Woodruff & Son.

United States Patent Office.

IRA A. LIVINGSTON, OF HORNELLSVILLE, NEW YORK.

Letters Patent No. 66,506, dated July 9, 1867.

IMPROVEMENT IN WELL-TUBES AND POINTS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, IRA A. LIVINGSTON, of the town of Hornellsville, in the county of Steuben, in the State of New York, have invented certain new and useful improvements in the mode of attaching and detaching the tube or water pipe to the driving-point for artesian wells, and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents the point, with the slotted or lower section of the tube, showing the mode of attaching and detaching the tube to the point.

Figure 2 shows the point, with lower section and cover, with the nut or coupling of the first joint.

The object of my invention is to save the tubing or pipe in case the well proves a failure. My invention consists in the mode of connecting the slotted or lower section of the tube to a solid metal point by a longitudinal and right-angled slot so as to hold the tube firmly to the point while it is being driven, and will also enable the pipe or tube to be turned and drawn up to ascertain if there is water, and also save the tubing should there be a failure to obtain a supply of water.

That others may be enabled to make and use my improvement I will describe it, referring to the drawings and the letters marked thereon.

The point A is made of solid metal, with a ledge, *a a*, for the shield or outer tube, B, to fit and rest on. The lower section of the main tube C has a slit, *b*, which is turned at a right angle, *e*, at the lower end, and fits on to a stem or shank, X, of the point A, which has a square hub or projection cast on it, *f*, so that when the tube C is turned so that the hub *f* is in the angle of the slit, the point is secured to and can be controlled by the pipe, and when in a line the tube C can be raised, so that the first coupling D will admit the water into the space which is between the tube C and the shield B, and in case of a failure to obtain water the pipe can all be taken out and saved for another trial.

What I claim, is—

The solid metal point A, shank X, socket *y*, in combination with the rectangular slot *b e*, and projection *f* on the shank, to secure the main tube C in connection with the outer tube or shield, B, and coupling D, operating in the manner as and for the purposes herein set forth.

In testimony whereof I hereunto subscribe my name on this 3d day of April, 1867, in the presence of—

IRA A. LIVINGSTON.

Witnesses:

EDM. F. BROWN,

J. B. WOODRUFF.