

C. E. WHELPLEY.

Improvement in Tubes for Drive-Wells.

Patented July 9, 1872.

No. 128,935.

Fig 1.

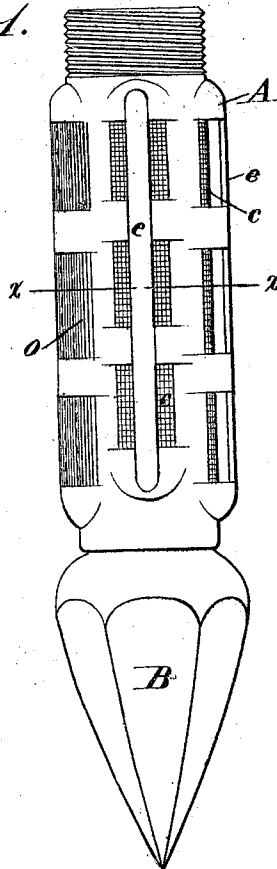
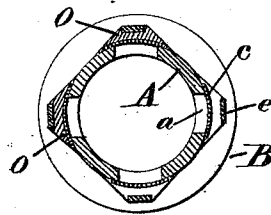


Fig 2.



Witnesses.

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IMPROVEMENT IN TUBES FOR DRIVE-WELLS.

Specification forming part of Letters Patent No. 128,935, dated July 9, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, CORYDON E. WHELPLEY, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Tubes for Drive-Wells, of which the following is a specification, reference being had to the accompanying drawing.

My invention consists in certain improvements in the construction and preparation of points for well-tubes, as hereinafter more fully described.

Figure 1 is a side elevation of the point. Fig. 2 is a transverse section of the same on the line *xx* of Fig. 1.

This invention is an improvement on the point for well-tubes patented to Macomber & Whelpley, March 1, 1870. In driving the tube of Macomber & Whelpley, the guard, which was made of wire, did not give sufficient protection to the gauze which covered the holes, and gravel would often work in and injure the gauze, and clay would fill up the meshes of the gauze and the holes which the gauze covered.

In order to obviate these difficulties I construct my improved point of a tube, A, provided at its lower end with a solid metal point, B, and with holes or openings *a*, which are covered with gauze *c*, as before. I then substitute a flat metal strip, *e*, for the wire used in the former case, thereby giving better protection to the gauze. In addition to this I fill

the space between the gauze *c* and the guard *e* with hard soap or other soluble matter, as shown at *o* in Figs. 1 and 2.

When the point has been driven so that it rests in the water-bearing stratum the soap soon dissolves, and when the pump is applied and operated the water passes freely through the gauze and the holes.

It is obvious that other soluble substances may be used in lieu of the soap, and therefore I do not confine myself to that alone; but in practice I find that hard soap, applied as described, answers the purpose admirably.

Having thus described my invention, what I claim is—

1. The tube A, provided with a series of holes covered with wire-gauze, and having the flat guards or strips *e* arranged in line with the perforations, and at a small distance from the gauze, as set forth.

2. In combination with a well-tube, constructed substantially as described, I claim hard soap, or an equivalent soluble material, applied to the strainer as described, for the purpose of excluding the earth therefrom while the tube is being driven, and which, when brought in contact with the water, will dissolve and leave the tube and strainer unobstructed, as set forth.

CORYDON EUGENE WHELPLEY.

Witnesses:

ALBEE SMITH,
HIRAM THOMPSON.