

*A. Waters,
Well Tube.*

No. 96,854.

Patented. Nov. 16. 1869.

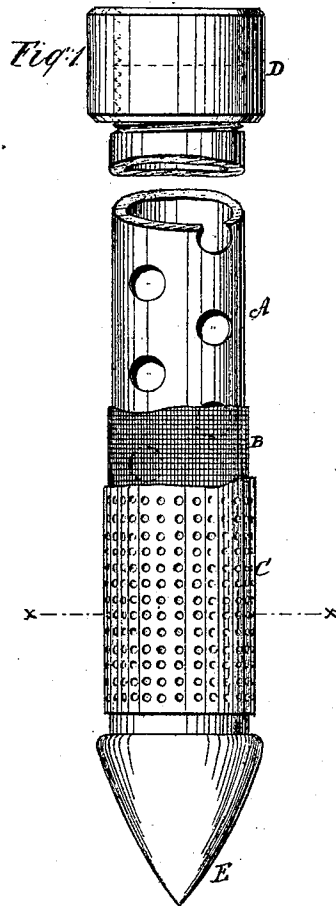
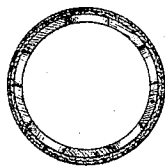


Fig. 2.



Witnesses:

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United States Patent Office.

ASA WATERS, OF MOBILE, ALABAMA.

Letters Patent No. 96,854, dated November 16, 1869.

IMPROVEMENT IN TUBE-WELLS.

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, ASA WATERS, of Mobile, in the county of Mobile, and State of Alabama, have invented a new and useful Improvement in Tube-Wells; and I 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.

This invention relates to new and useful improvements in "tube" or "drive-wells;" and consists in covering the perforated well-tube with wire cloth, and in protecting the wire-cloth covering with a perforated metallic shield, as hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents the lower portion or section of a well-tube constructed according to my invention.

Figure 2 is a cross-section of fig. 1, through the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the perforated well-tube, the interior of which is left entire or unobstructed.

B is the wire cloth by which the tube A is covered.

C represents the perforated shield by which the wire cloth B is protected.

The lower section of a tube-well usually contains an interior tube, covered with a screen of wire cloth,

so that the tube itself forms the shield. By dispensing with the inner tube in my present invention, I leave the well-tube free and unobstructed, and avoid a difficulty which has always been experienced in tube-wells constructed on the old plan, that is, the difficulty of keeping the water-passages unobstructed by reason of earth and clay which are forced through the orifices.

By my arrangement, the earth or clay enters in such minute particles that they are readily washed out by the flow of water.

D represents the collar on the lower section, into which the next section of the tube is secured.

I claim no novelty in regard to this, nor to the point E.

My invention consists in the arrangement described above.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

In combination with a tube-well, the wire-cloth covering B and the perforated shield C, constructed and arranged substantially as and for the purposes described.

ASA WATERS.

Witnesses:

HARRY PILLAUD,
PHILIP P. MAY.