

R. M. Morrill,

Well Tube.

No. 101,148.

Patented Mar. 22, 1870.

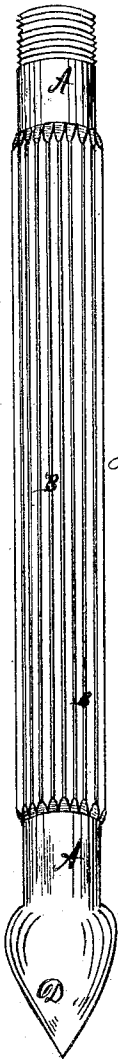


Fig. 1.

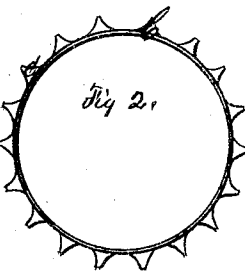


Fig. 2.

- A. Iron Tube*
- B. Strips of Tin*
- C. Space or Cavity*
- D. Iron Point*

In presence of
A. C. Capron
J. P. Hawkins
Witnesses

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ROBERT M. MORRILL, OF PLYMOUTH, INDIANA.

Letters Patent No. 101,148, dated March 22, 1870.

IMPROVEMENT IN SAND-SCREENS FOR IRON 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, ROBERT M. MORRILL, of the town of Plymouth, county of Marshall, and State of Indiana, have invented a new and useful Improvement in Sand-Screens or Filters for Iron and other Tube-Wells; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawing accompanying the same.

The method of making and operating the same is as follows:

Upon the ordinary gas-pipe or iron tubing A used for wells, strips of tin or any other suitable metal are soldered or otherwise properly fastened, with the edges of the strips bent or turned outward and brought very closely together, so close that particles of sand and dirt cannot work or draw through between the edges of the strips B.

The edges of the strips are raised from the tube, and form a triangular cavity, C, extending the whole length of the strips, which may be made of any required length.

In the tube small holes or slots are made of any required shape. These holes are to be in the triangular cavity, and to be in rows parallel with the edges of the strips.

The strips extend to within a few inches of the lower

end of the well-tube, which lower end is stopped with an iron or steel point, D, which point is made larger in its greatest circumference than the circumference of the tube and sand-screen; and when it (the tube) is driven into the ground, the point being larger than the screen, protects it from being bruised or otherwise injured by the pressure or friction while the well is being sunk. When water is reached, it passes freely through the orifices between the edges of the strips, thence into the tube through the triangular cavity and holes therein; and the narrowness of the orifice between the edges of the strips prevents the particles of sand or dirt from passing into the tube.

The short tube on which the screen is made is screwed to the main tube, and forms a part of the well.

What I claim is—

The well-tube herein described, composed of an inner perforated tube covered by a series of perpendicular concavo-convex metal strips whose edges are just far enough apart to allow the water to pass between and into the main tube, substantially as set forth.

ROBERT M. MORRILL.

Witnesses:

A. B. CAPRON,
L. G. CAPRON.