C. W. Perry,

Cistern,

No. 81,532. Patented Aug. 25, 1868.

Fig. 1

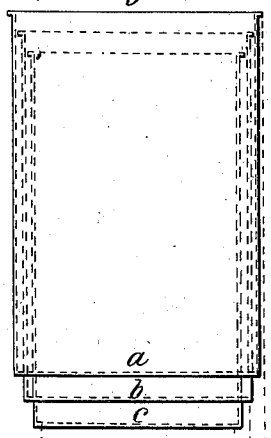


Fig. 2

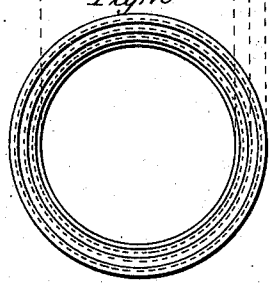
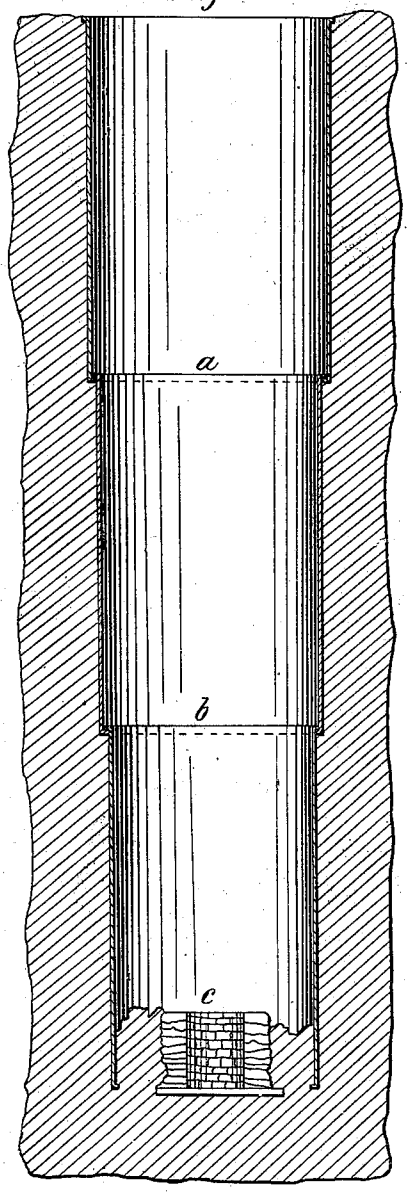


Fig. 3



Witnesses

Sydney A. Pierce

Volney M. Mason

Inventor

Charles W. Perry

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United States Patent Office.

CHARLES W. PERRY, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 81,532, *dated August* 25, 1868.

IMPROVEMENT IN WELL-CURBING.

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, CHARLES W. PERRY, of the city and county of Providence, in the State of Rhode Island, have invented a new and improved Device or Method of Curbing Wells while in the process of digging and stoning or piping; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a series of cases, as shown in fig. 1 by the letters *a b c*, these having different diameters, and are fitted to slide one within another, similar to a telescope, the object being to have all of them shut together, more or less in number, dependent on the depth the well is to be sunk, and, as the digging of the well proceeds, to lower them down successively, beginning at the largest diameter, until the well is sunk to the required depth.

Figure 3 shows a well sunk, with the curbing all let down in place, and the operation of stoning is commenced as fast as stones are laid, (or piping may be inserted in place of stoning.) The curbing may be withdrawn by a windlass at the top of the well, as fast as the stoning or piping progresses towards the top.

Figure 2 shows an end view of the cases, which have a flange formed, both at their bottom inside and top outside, to prevent from dropping through each other. I propose to construct these cases of sheet iron or any other suitable metal or material.

The advantages of my method over the old method are, first, wells may be started at a smaller diameter at the top, and be continued at a much smaller diameter to the bottom, than they can by using old-fashioned wooden curbing, as in each series of a wooden curbing the diameter is lessened considerably more than in one length or series of my improved curbing, the old-style curbing being formed by placing a number of wood planks upright, and are held in their place by inserting a large wood ring. The inside of this wooden ring forms the outside diameter of the next lower series of planking, thereby decreasing the diameter, as the well descends, much faster, in proportion to the depth, than by the use of my new curbing.

It will be obvious that my curbs are much more quickly and easily put down than the old-style curbing; also may be more quickly removed from wells.

It will also be evident that, by the use of my improved curbing, wells may be started at a considerable less diameter at the top than is practicable with old-fashioned curbing, thereby rendering it necessary to remove or excavate much less earth, thus saving much in time and expense of digging wells.

It will be obvious that the number of cases or tubes required is dependent on the depth of the well to be made. It will also be evident that the principle of my invention may be carried out by the use of various kinds of metals or materials. Therefore I do not claim the use of any particular number of tubes or cases, nor any particular size of its parts; neither do I claim exclusively the use of any particular material in their construction; but

What I do claim, and desire to secure by Letters Patent, is as follows:

I claim, in the construction of wells, the combination and arrangement of a series of tubes or cases, sliding within each other, capable of extension and contraction, when applied in the manner and for the purposes specified.

CHARLES W. PERRY.

Witnesses:

SYDNEY W. PIERCE,

VOLNEY W. MASON.