

G. B. KISNER.
WELL STRAINER.

APPLICATION FILED FEB. 2, 1905.

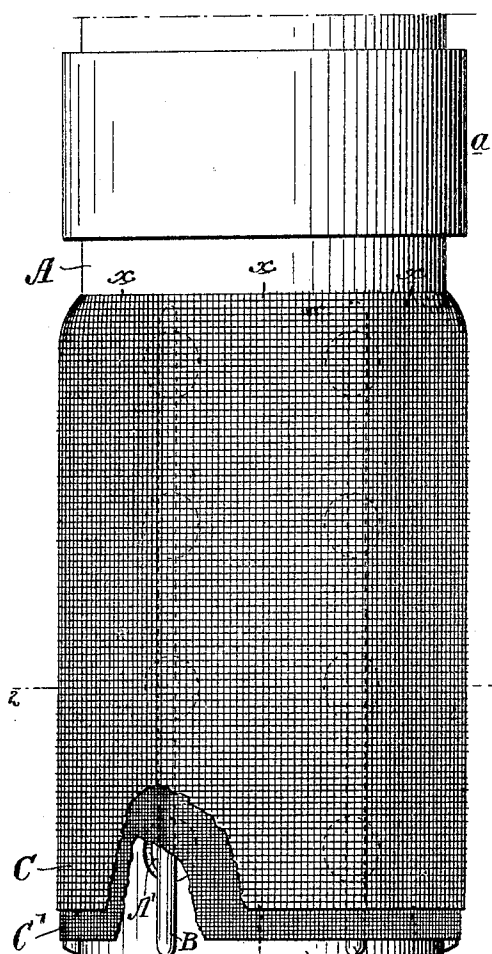


FIG. 1.

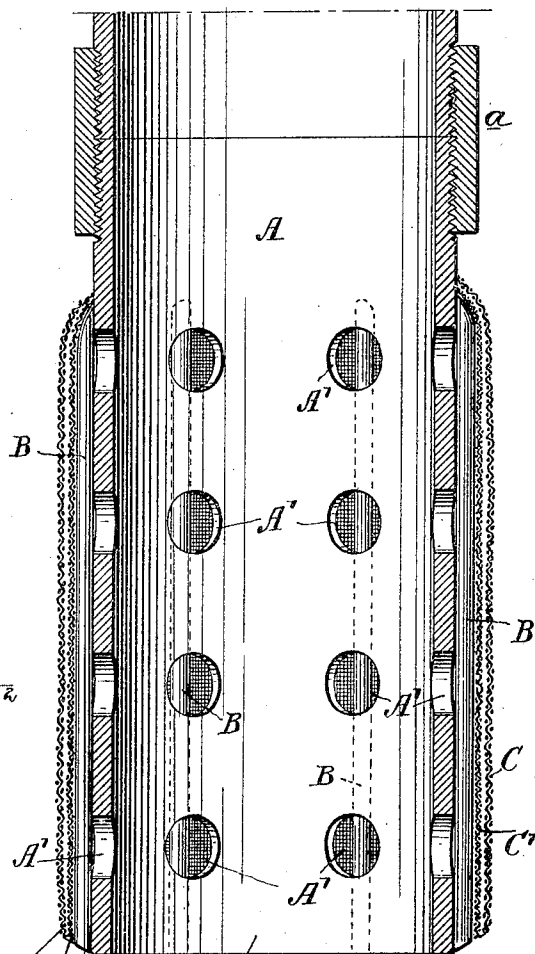


FIG. 3.

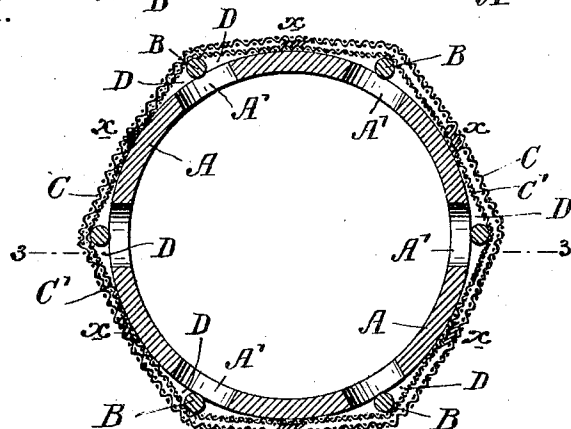


FIG. 2.

WITNESSES:

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By his Attorney

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UNITED STATES PATENT OFFICE.

GEORGE B. KISNER, OF BELMAR, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO JOSEPH L. SWEIGARD, OF PHILADELPHIA, PENNSYLVANIA.

WELL-STRAINER.

No 801,995.

Specification of Letters Patent.

Patented Oct. 17, 1905.

Application filed February 2, 1905. Serial No. 243,851.

To all whom it may concern:

Be it known that I, GEORGE B. KISNER, a citizen of the United States, residing at Belmar, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in Well-Strainers, of which the following is a specification.

My invention relates to improvements in a well-strainer; and the object of my invention is to construct a well-strainer in such a manner that the apertures in the pipe or body of the strainer will be covered with wire mesh and to suspend the latter from the body portion at certain points, so that the area of the working surface of the wire mesh will be greater than the size of the said apertures.

A further object of my invention is to provide a chamber between the wire mesh and the body portion, so that two or more apertures will be connected with said chamber, so that in case a portion of the wire mesh should become clogged the water passing through the unclogged portion of the wire mesh will be supplied to all the apertures leading from the said chamber into the body portion.

Referring to the drawings, Figure 1 is a side elevation of my improved well-strainer. Fig. 2 is a horizontal section as on line 2 2, Fig. 1. Fig. 3 is a vertical section as on line 3 3, Fig. 2.

In the drawings, A represents the body portion of the strainer, which is a section of the pipe which extends the entire depth of the well, the sections being joined together by the couplings *a*. The body portion A is provided with apertures A', preferably arranged in vertical rows. Upon the outside surface of the body portion are secured rods or ribs B, located centrally with each vertical row of apertures A'.

Wire mesh C is used to incase the body portion. I preferably use a very fine sheet of wire-mesh for the inside layer, as shown at C', with a coarser sheet C on the outside. Any number of sheets of wire mesh of any desired size of mesh may be used.

The rods B, as shown in Fig. 2, suspend the wire mesh from the body portion A and

form chambers D, which extend vertically adjacent to the vertical row of apertures A'. The wire mesh is soldered at the points *x* to the body portion.

By constructing the well-strainer in the above manner the entire surface of the wire mesh practically is in use for straining the water, and by means of the rods B, which suspend the wire mesh, and from the chambers D the water may flow through all the apertures A' into the body portion even though a portion of the wire mesh be clogged.

It will be understood that I do not limit my invention to the exact construction shown, as the suspending-rods may be in the form of ribs cast on the body portion, and they may extend horizontally instead of vertically without departing from my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. In a well-strainer, the combination of a body portion having apertures formed therein, rods extending across the said apertures formed in the said body portion and wire mesh covering the whole, substantially as described.

2. In a well-strainer the combination of a body portion having apertures formed therein and arranged in rows, rods extending coaxially with said rows of apertures, and wire mesh covering the whole, substantially as described.

3. In a well-strainer the combination of a body portion, wire mesh incasing the said body portion, rods extending vertically along said body portion and adapted to suspend said wire mesh from said body portion and to form continuous chambers at either side of said vertical rods and said body portion having apertures formed therein located directly beneath said vertical rods, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE B. KISNER.

Witnesses:

JULIUS SONNENBURG,
NEIL H. MILLER.