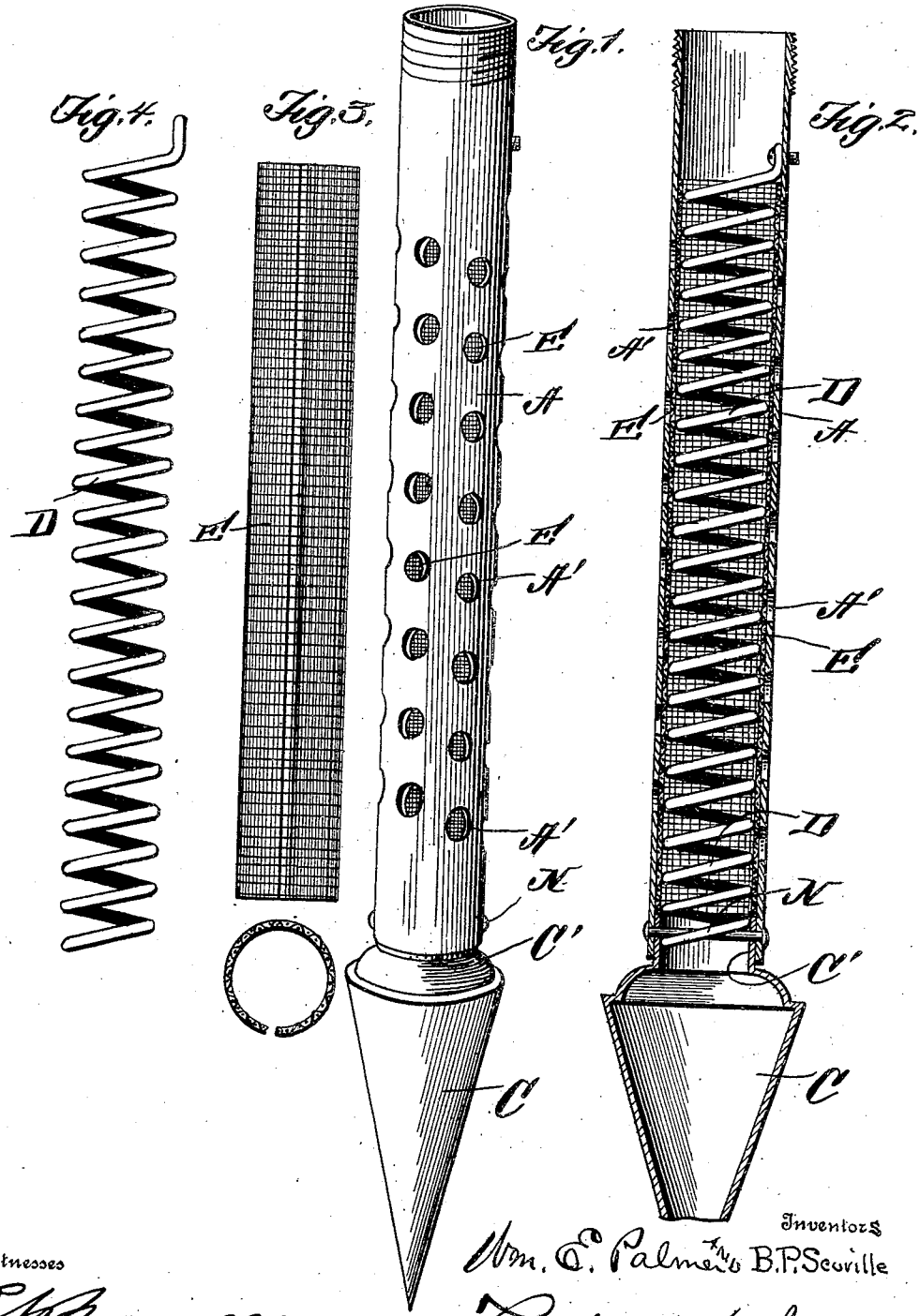
W. E. PALMER & B. P. SCOVILLE.

DEVICE FOR SECURING SCREENS IN WELL POINTS.

APPLICATION FILED NOV. 14, 1908.

923,371.

Patented June 1, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM E. PALMER, OF VANDALIA, AND BELA P. SCOVILLE, OF CONSTANTINE, MICHIGAN.

DEVICE FOR SECURING SCREENS IN WELL-POINTS.

No. 923,371. Specification of Letters Patent. Patented June 1, 1909.

Application filed November 14, 1908. Serial No. 462,680.

To all whom it may concern:

Be it known that we, WILLIAM E. PALMER and BELA P. SCOVILLE, citizens of the United States, residing, respectively, at Vandalia, in the county of Cass, State of Michigan, and Constantine, in the county of St. Joseph and State of Michigan, have invented certain new and useful Improvements in Devices for Securing Screens in Well-Points; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference-marks thereon, which form a part of this specification.

This invention relates to new and useful improvements in means for holding screens in tubular shells of driven wells and consists essentially in a coiled spring designed to hold a cylindrical screen frictionally against a perforated cylindrical wall of a shell to which a metallic pointed tip is connected, thereby effectually preventing sand or other foreign matter from entering the shell.

The invention comprises various details of construction, combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claim.

The invention is illustrated in the accompanying drawing, in which:—

Figure 1 is a perspective view showing the parts of the invention assembled. Fig. 2 is a sectional view longitudinally through the apparatus. Fig. 3 is a detail view, showing a cylindrical screen which is mounted within the perforated cylinder shown in Figs. 1 and 2, and Fig. 4 is a detail view of a spring mounted within the cylinder and screen and adapted to hold the latter in place.

Reference now being had to the details of the drawings by letter, A designates a cylindrical shell having perforations A′ therein, through which water is allowed to pass into the interior of the shell.

C designates a metallic tip having a contracted portion C′ designed to telescope within one end of the shell A, the end of the shell engaging against the shoulder upon the end of the tip. Mounted within the tubular shell is a screen E, which is cylindrical in form and made of resilient material and split and which rests preferably upon the shoulder of the tip about said contracted portion C′.

D is a coiled spring which is inserted within the screen and designed to expand and hold the screen tightly against the inner surface of the apertured shell, thereby effectually preventing sand, dirt or other foreign matter from entering the shell. When the parts are assembled, a pin N is passed through the screen, spring and aperture in the contracted shank portion of the tip, thereby holding the parts together.

In assembling the parts, the spring is preferably contracted or its diameter reduced to enable the same to be inserted within the screen and, when adjusted in place, allowed to expand and hold the screen in proper position against the inner wall of the perforated shell.

What we claim to be new is:—

In combination with a perforated shell, a tip with the shank portion telescoping within said shell, a screen resting upon the inner telescoping end of the shank of said tip, a coiled spring with one end mounted within the shank portion of said tip and adapted to hold said screen against the inner surface of the perforated tube, one end of said spring having an eye, a screw passing through said eye and tube and adapted to secure the spring thereto, a bolt passing through registering apertures in said shell and shank of the tip and engaged by one end of the coiled spring, as set forth.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

WILLIAM E. PALMER.
BELA P. SCOVILLE.

Witnesses:
H. A. SNYDER,
CHARLES CAHN.