

(No Model.)

C. L. HALSTEAD.
Sand Point for Wells.

No. 238,112.

Patented Feb. 22, 1881.

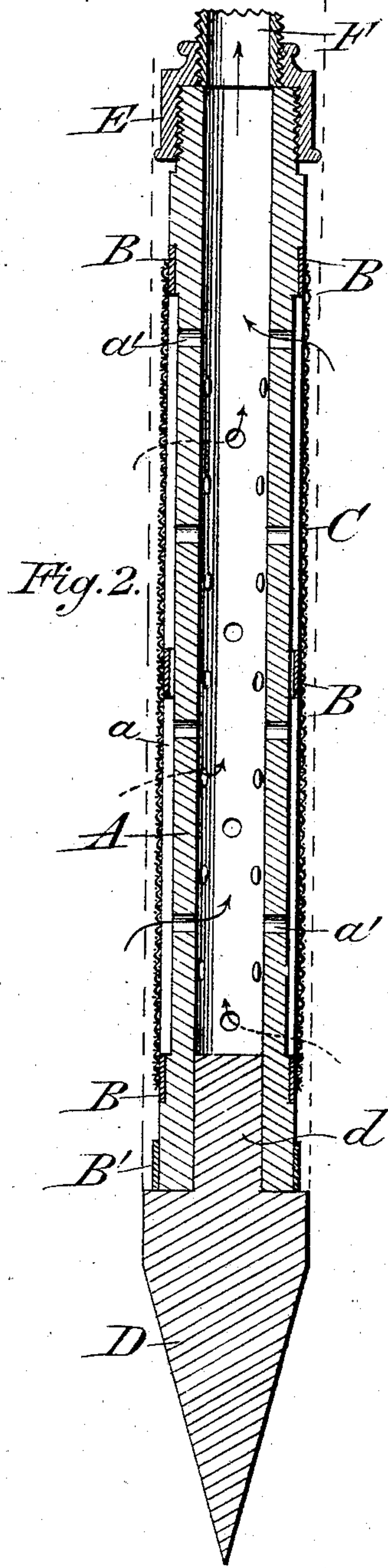
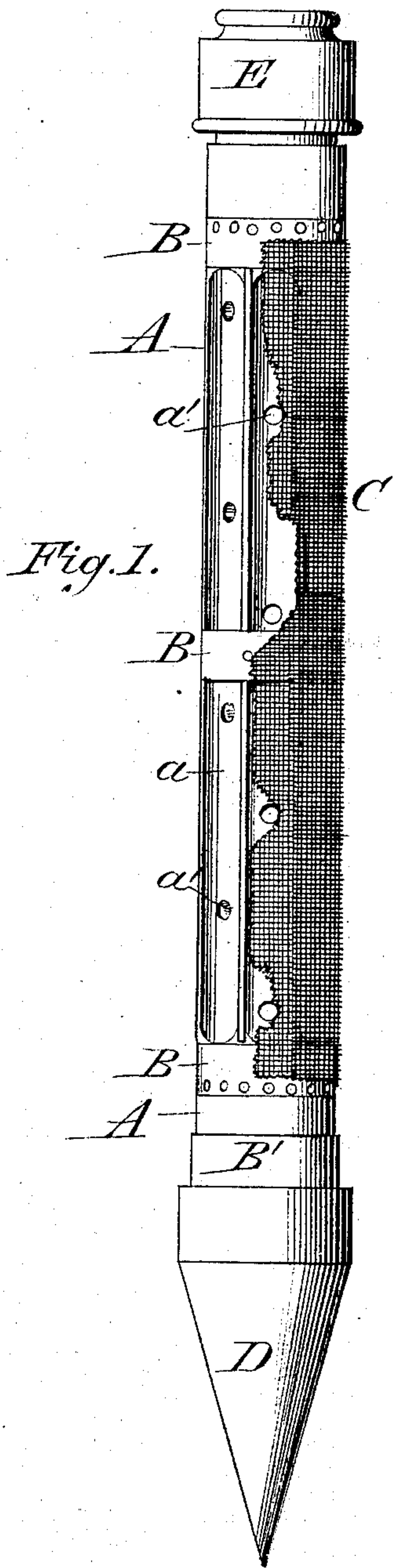


Fig. 3.

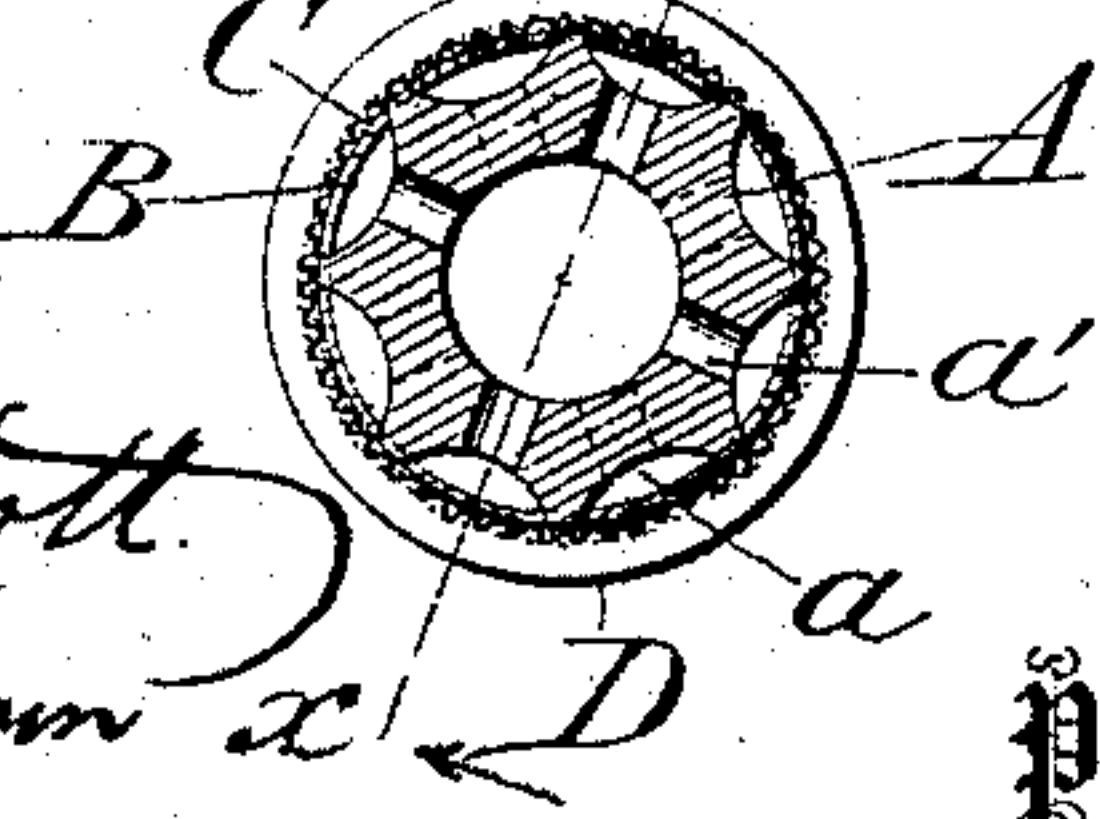
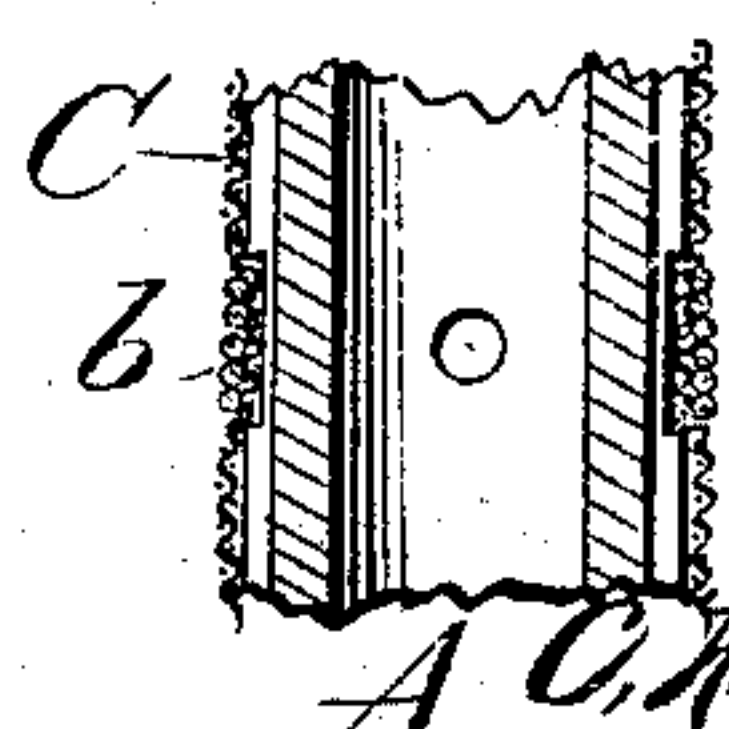


Fig. 4.



Witnesses:
J. H. Schott
A. R. Brown
Per

Inventor
Charles L. Halstead
A. C. Watson & Co. Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES L. HALSTEAD, OF LA CROSSE, WISCONSIN.

SAND-POINT FOR WELLS.

SPECIFICATION forming part of Letters Patent No. 238,112, dated February 22, 1881.

Application filed December 27, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. HALSTEAD, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Sand-Points for Wells; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 marked thereon, which form a part of this specification.

This invention relates to driven wells; and it consists in the construction and arrangement of a sand-point and other devices, as hereinafter more fully described and claimed.

In the annexed drawings, in which similar parts are indicated by like letters in the several views, Figure 1 is a side view of my improved apparatus. Fig. 2 is a vertical longitudinal section of the same on the line *x x*, Fig. 3. Fig. 3 is a cross-section, and Fig. 4 is a modification.

A represents a tube, preferably made of white oak or other hard wood. The outer surface of this tube is fluted or provided with longitudinal grooves *a*, in each of which are perforations *a'*, that communicate with the interior of the tube.

On the outside of the tube A, at its center and near each end, bands of galvanized iron, B, are secured in grooves that encircle the tube, so as to be flush with its outer surface. These bands strengthen the tube, and also serve as an even support for the wire-cloth C, which is soldered to them and to a strip of galvanized iron that is secured to one of the longitudinal ribs that separate the grooves *a*.

To the lower end of the tube A is secured

a driving-point, D, which may be made of metal, hard wood, or other suitable material. This point is provided with a close-fitting shank, *d*, that enters the end of the tube, which is secured thereto by a galvanized metallic band, B'.

At its upper end the tube A is screw-threaded and provided with a coupling, E, by means of which additional lengths of pipe F may be attached, as required.

Instead of employing the galvanized-iron bands B, the wire-cloth C may be attached by means of annealed brass wire, *b*, wound about the cloth and pressing it into grooves, as shown in Fig. 4.

The tubing above described may be driven into the earth in the usual manner, and being made of hard wood and galvanized metal will not rust or corrode. While the tubing is being driven the wire filtering-cloth is protected from injury by the projecting sides of the point D, which is of greater diameter than the tube A; or, if desired, the tube A and wire-cloth C may be inclosed in a protecting-shield until the proper depth is reached.

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

The combination of the fluted wooden tube A, having perforations *a'*, galvanized-metal bands B B', wire-cloth C, point D, having shank *d*, and the coupling E, all constructed and arranged substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES L. HALSTEAD.

Witnesses:

J. J. FRUIT,

H. R. HORNER.