

(No Model.)

J. ELLIOTT.

WELL TUBE.

No. 311,299.

Patented Jan. 27, 1885.

Fig. 1.

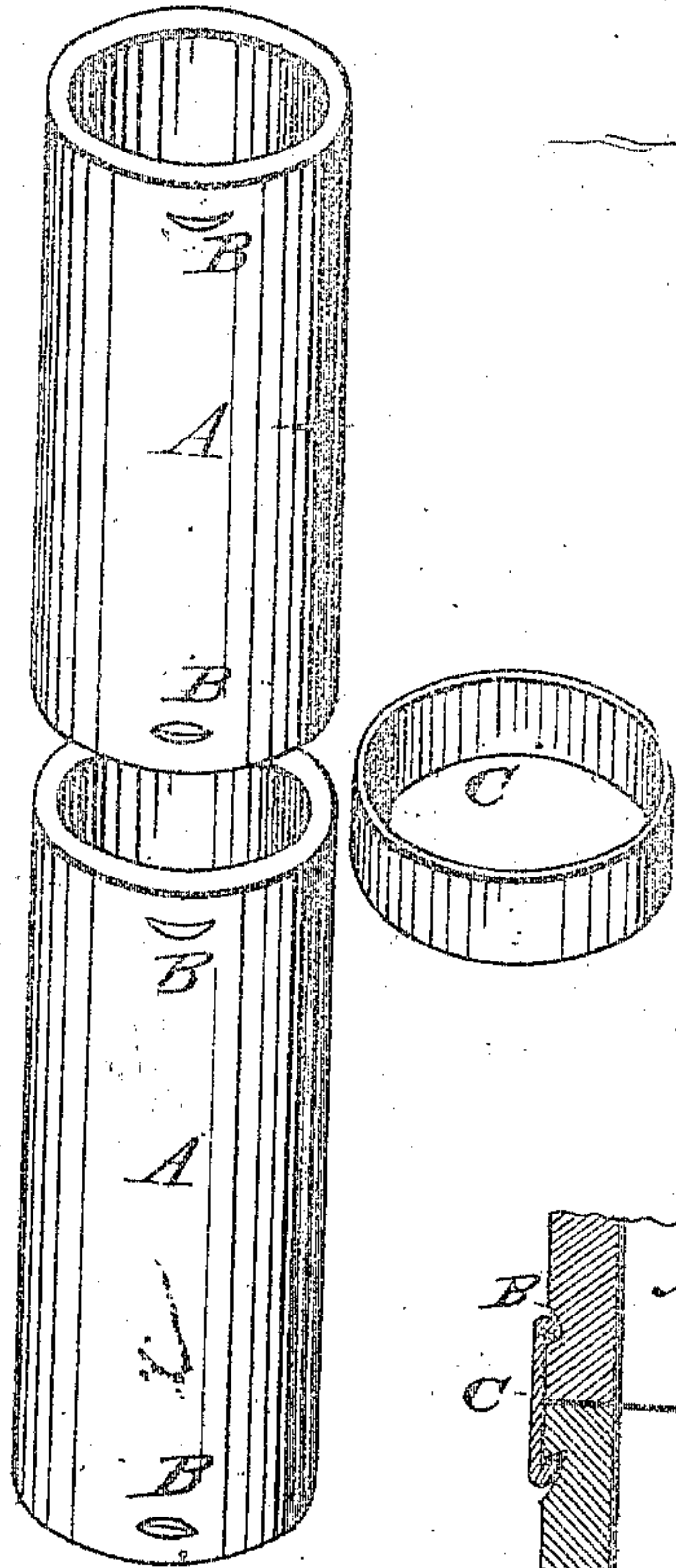


Fig. 2.

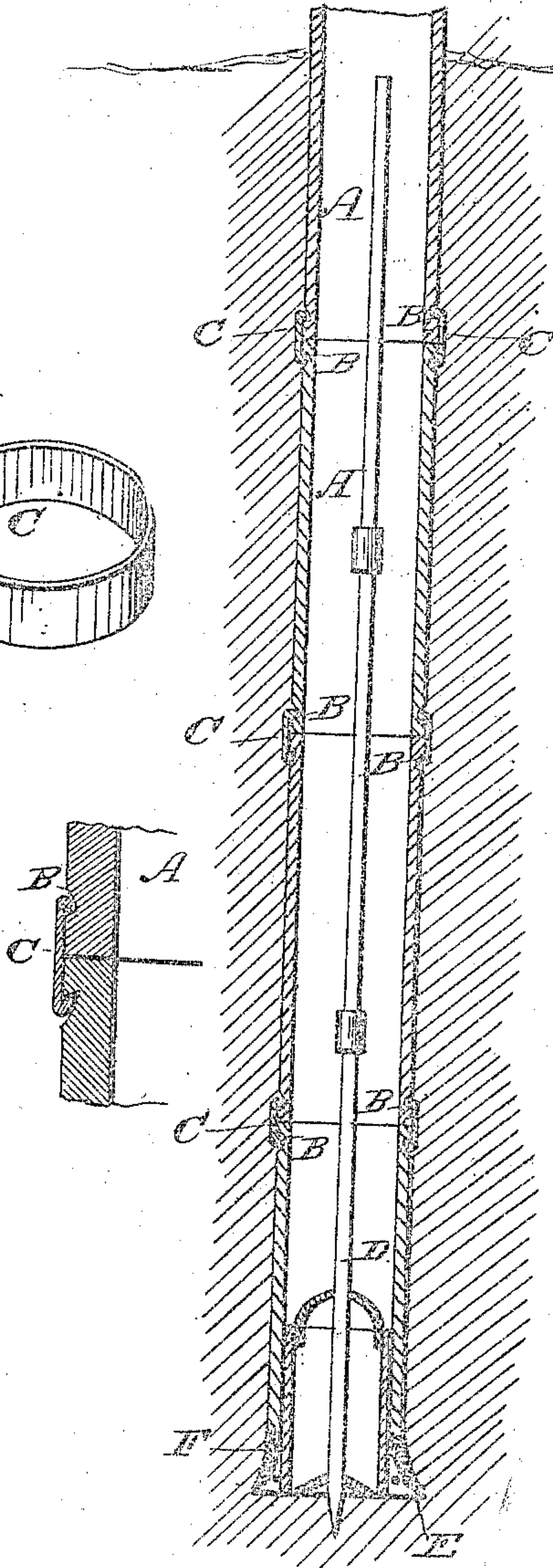
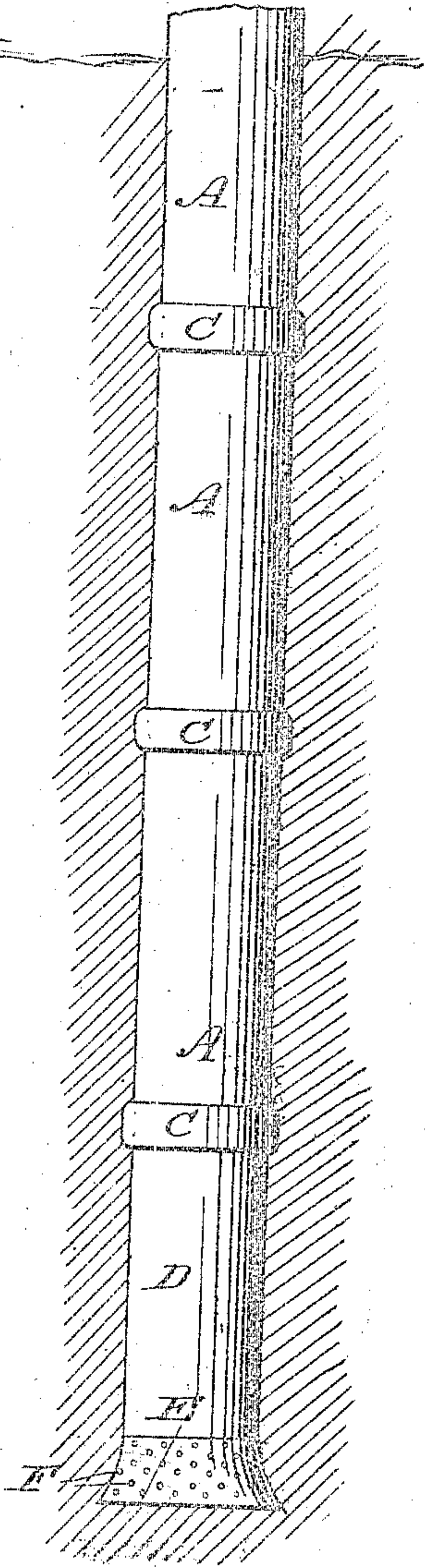


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES ELLIOTT, OF MELVILLE, NEW YORK.

WELL-TUBE.

SPECIFICATION forming part of Letters Patent No. 311,299, dated January 27, 1885.

Application filed September 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES ELLIOTT, a citizen of the United States, and a resident of Melville, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Well-Tubes; 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, which form a part of this specification, and in which—

Figure 1 is a perspective view of two of my improved well-tubes, showing the same ready to be connected or coupled together. Fig. 2 is a vertical sectional view of a well constructed with my improved tubing, showing the same in process of construction; and Fig. 3 is a side view showing the well-tubes connected and sunk in the ground.

The same letters refer to the same parts in all the figures.

This invention relates to well-tubes for tubular wells; and it has for its object to provide tubes of this class which shall be simple, inexpensive, durable, easily connected, and easily sunk in the ground during the process of constructing the well.

With these ends in view the invention consists in the improved construction of the said tubes and the method of connecting or coupling them together, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates my improved well-tube, which consists, simply, of a cylindrical tube of suitable dimensions, constructed of terra-cotta, earthenware, or other durable and inexpensive material, the outer side of which is provided, near the ends, with a series of notches, B B. These notches are easily formed, and the tubes provided therewith may be produced at a much less expense than the flanged tubes which are now frequently employed.

The tubes A A are in practice to be connected by plain annular rings or bands of galvanized sheet-iron or other sheet metal prop-

erly treated, to protect it from rust and corrosion. These bands, which are designated by letter C, are to be suitably constructed of such size as to fit the ends of the tubes neatly and tightly.

The lowermost tube, or the one which is first inserted into the well-opening, is to be of a construction slightly different from the rest, as will be seen by reference to the drawings, where the said tube is indicated by letter D. The said tube is made slightly flaring at its lower end, which is constructed with a sharp edge, E, in order to enable it to penetrate more easily into the ground. The lower end of the said tube is also provided with perforations F F, constituting a strainer, through which the water is admitted into the well-tube.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. The sand or earth is removed from inside the pipe by an ordinary sand-auger or boring-tool, thus permitting the pipe to settle down into the ground. As each tube-section thus settles down it is connected with the one next above by means of one of the rings or bands C, which is slipped over the ends of the two tube-sections and clinched or bent into the notches B of the same. In this manner a simple, tight, and durable joint is formed, the diameter of which so slightly exceeds that of the tubes or pipes as to offer no appreciable obstruction to the settling of the latter into the ground. The joint is easily formed, and the accidental displacement of the connecting ring or band, when once properly adjusted, is practically impossible.

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

1. The combination, with a pair of well-tubes consisting of tubular cylinders the adjoining ends of which are provided with exterior notches, of a joint or coupling consisting of a plain annular sheet-metal ring or band adapted to have its edges clinched or

bent into the notches of the adjoining tube ends, substantially as and for the purpose set forth.

2. A pipe-coupling for well-tubes, consisting of a plain annular sheet-metal ring or band the edges of which are bent or clinched into notches formed exteriorly in the adjoining ends of two well-tubes, substantially as and for the purpose herein set forth.

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

JAMES ELLIOTT.

Witnesses:

JOSEPH THATCHER,
FREDERICK UNSER.