

G. W. NEVILL.  
Drain Tile Laying Apparatus.

No. 136,751.

Patented March 11, 1873.

Fig. 1.

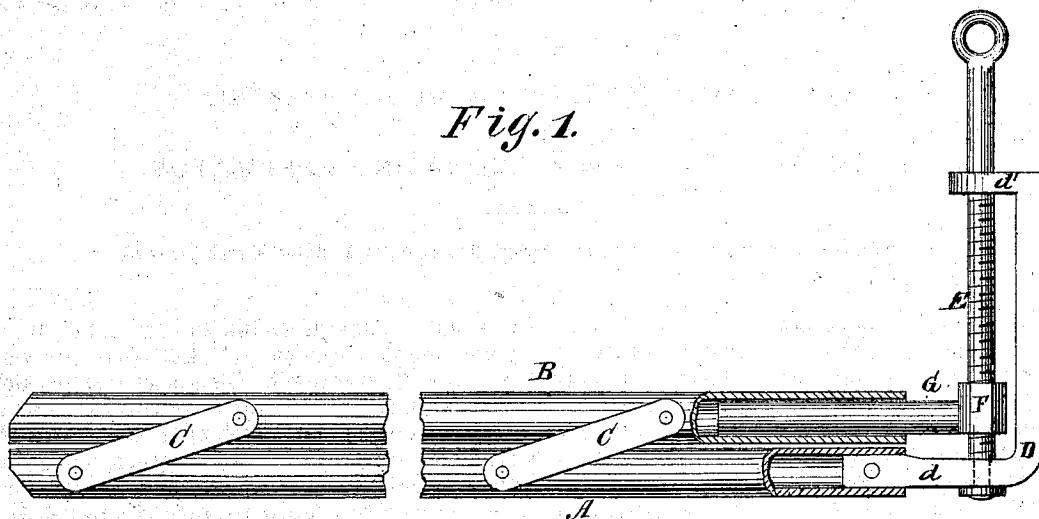
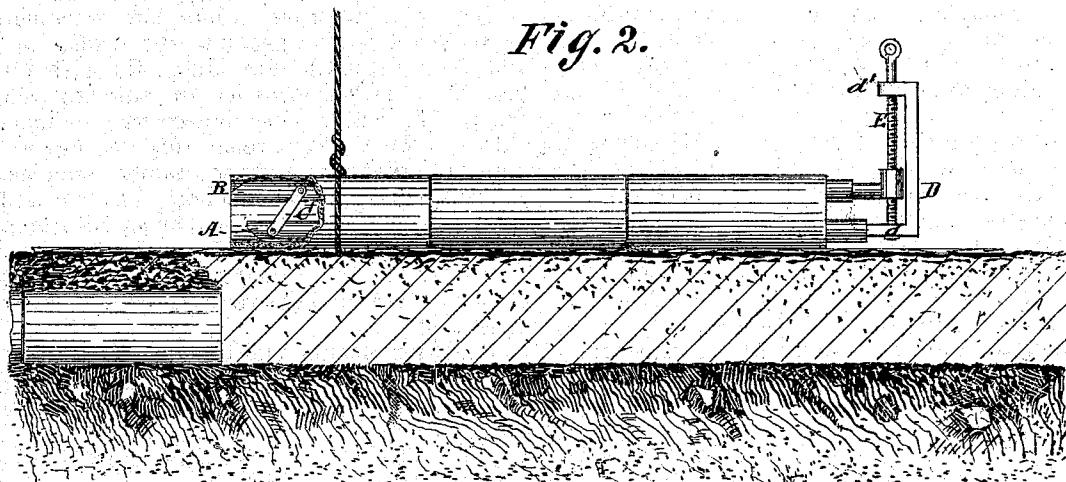


Fig. 2.



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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN DRAIN-TILE-LAVING APPARATUS.

Specification forming part of Letters Patent No. 126,751, dated March 11, 1873.

*To all whom it may concern:*

Be it known that I, GEORGE W. NEVILL, of Richmond, in the county of Henrico and State of Virginia, have invented a Tool for Placing Tile in Ditches, of which the following is a specification.

The invention consists in a tool consisting of two tubes adjustably connected together, on which the tiles are held firmly while being carried into the ditch, and from which they may be then readily detached, all as hereinafter fully described.

The advantages of this tool are that the tiles, being laid in sections of several, according to the length of the tool, the operator is enabled to lay them by means of a level, or otherwise, at a regular and more uniform pitch; to lay a line of tiles with much greater accuracy, with far greater rapidity, and with an economy of at least fifty per cent. in the cost.

In the drawing, Figure 1 is a side elevation with parts broken out. Fig. 2 shows the way of using the tool. A B represent two tubes, connected together by one or more pairs of straps, C C, which are pivoted to each. D is a flattened rod, having the two bent ends d d'. The end d is longer than d', and is fastened within the tube A. In both is screwed a long swiveled screw, E, which passes through a nut, F, of the rod G that is attached within the tube B.

The operation of the tool is as follows: The ditch having been opened to the desired width and depth, and the tiles having been strewn alongside the ditch upon planks or otherwise, the two tubes are placed within one or a series of tiles previously laid in position to receive

the tool. I use tubes instead of solid cylinders, simply because of the strength combined with lightness. The screw E is then worked in the nut F until the two tubes bear firmly upon opposite sides of the tiles, and are made fast to them. One man then holds one end, while a second holds the other, and the free ends of the tubes are placed against the tile already laid, the tool end with the screw projecting beyond the new line of tiles. The row of tiles having been adjusted, covered, and packed with dirt, the tube B is lowered by the screw in the direction of tube A, until they are loosened from the tiles, when they are withdrawn.

It will be perceived that, unlike the old system of laying tiles, where two workmen were compelled to get into the ditch, and also to adjust each individual tile, with my tool there is no necessity of entering the ditch. It also becomes unnecessary to excavate so wide a ditch preparatory to the laying of the tiles, while, by the number simultaneously placed, a great economy of labor and expense is obtained. A rope or metallic loop may be used at one end in lowering the tubes.

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

A tool for placing tiles in a prepared ditch or excavation, consisting of tubes A B, connected by screw and pivoted straps as described.

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Witnesses:

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