

(No Model.)

W. V. RUSSELL.
FENCE.

No. 409,243.

Patented Aug. 20, 1889.

Fig. 1.

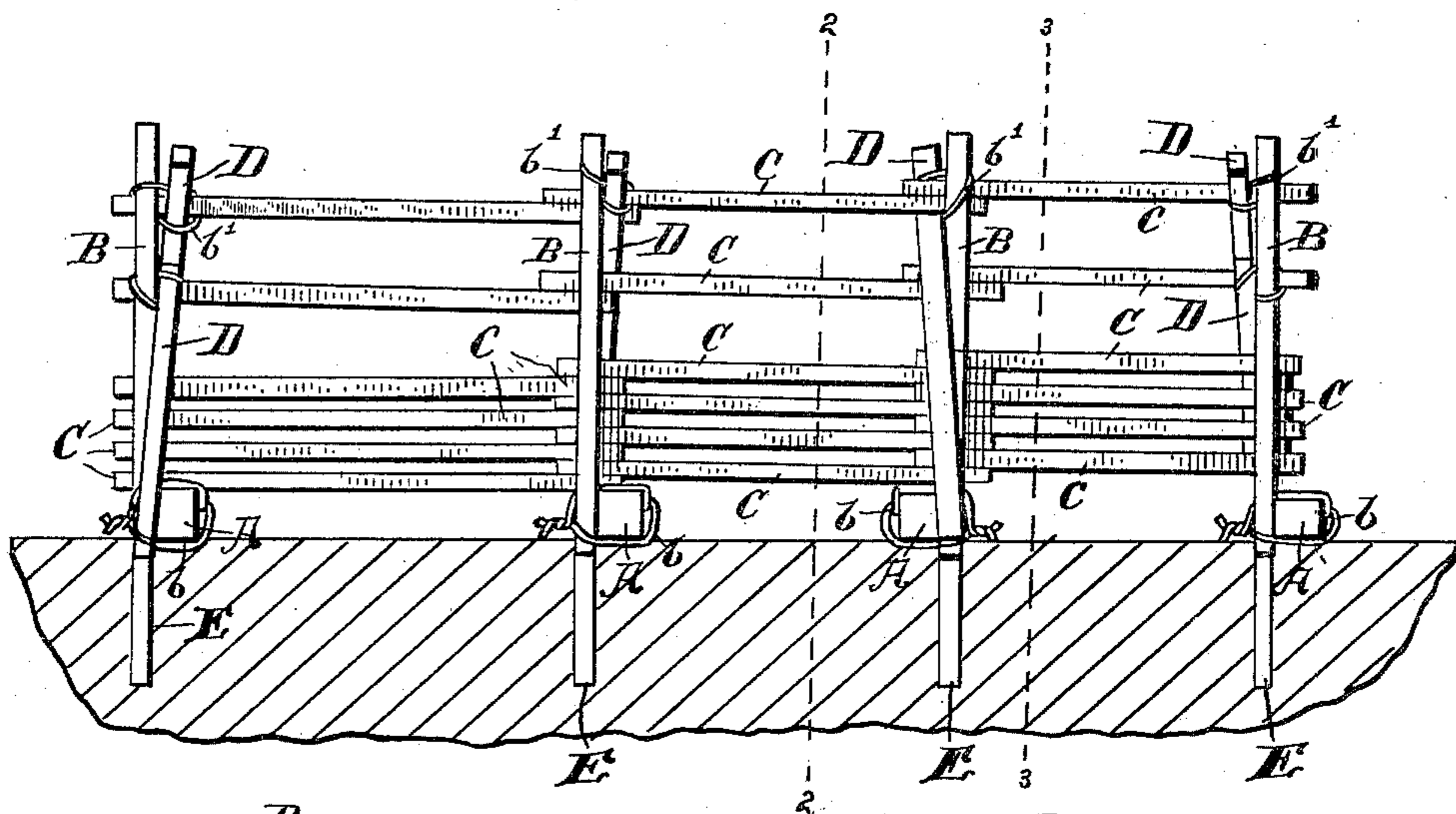


Fig. 2.

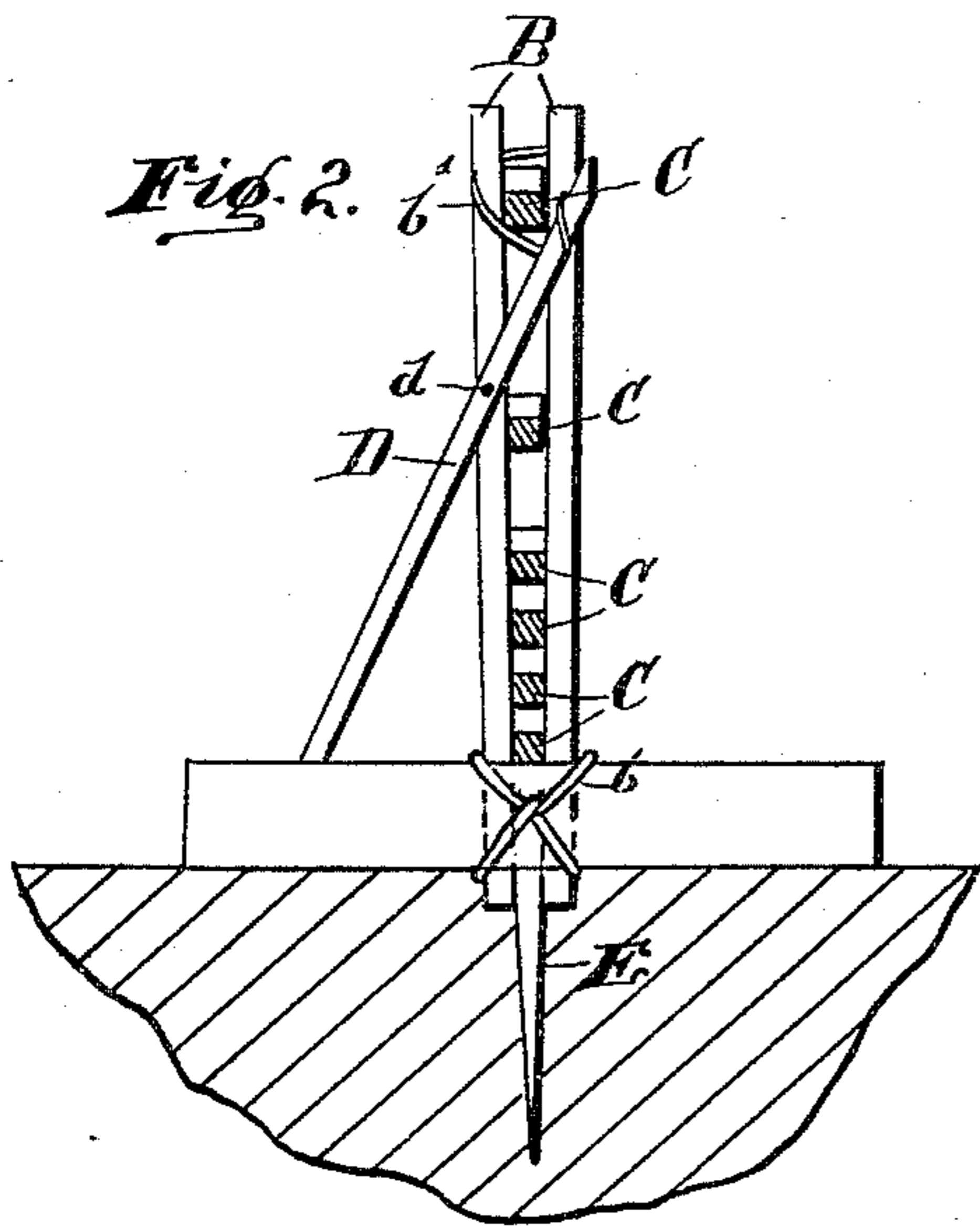
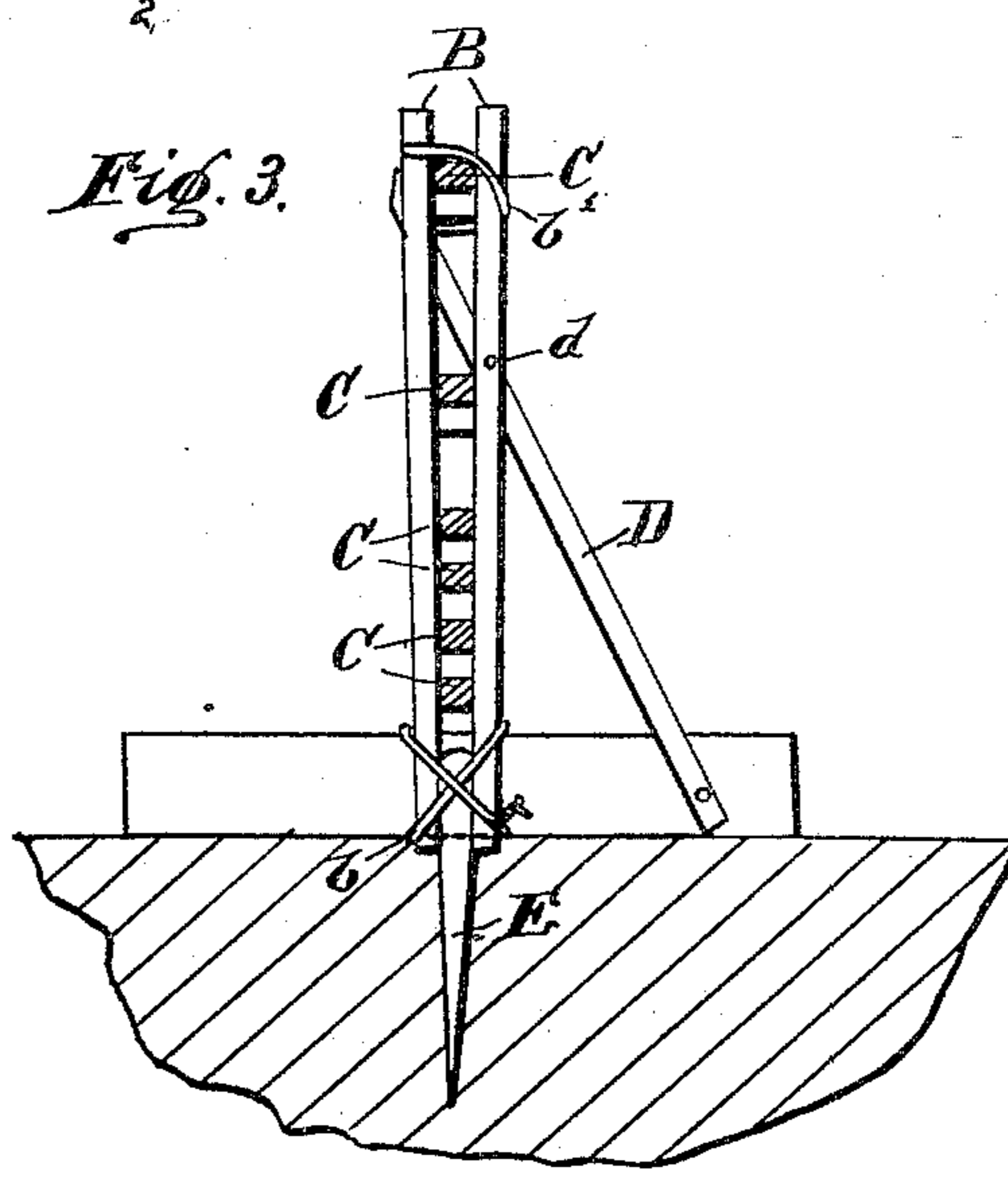


Fig. 3.



WITNESSES.

G. W. H. Brown,
W. F. Browder

INVENTOR.

William V. Russell,
by E. W. Bradford.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM V. RUSSELL, OF GREENVILLE, OHIO.

FENCE.

SPECIFICATION forming part of Letters Patent No. 409,243, dated August 20, 1889.

Application filed March 8, 1889. Serial No. 302,403. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM V. RUSSELL, a citizen of the United States, residing at Greenville, in the county of Darke and State of Ohio, have invented certain new and useful Improvements in Fences, of which the following is a specification.

My said invention consists in various improvements in the details of construction of a fence of the general form and character as that shown in my Letters Patent, No. 214,956, of April 29, 1879, whereby it is rendered more simple in construction and less expensive to build, as will hereinafter more particularly be described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a section of a fence constructed in accordance with my invention; Fig. 2, a cross-section through the same, looking to the right from the dotted line 2 2 in Fig. 1; and Fig. 3 a similar view looking to the left from the dotted line 3 3 in the same figure.

In said drawings, the portions marked A represent the feet or base-blocks; B, the uprights; C, the rails; D, the tie-brace, and E a wedge-shaped stake for securing the fence in position.

The feet or base-blocks A are any blocks or wood, stone, iron, or other material that may be convenient or desired, and are of such length, size, and weight as may be required to give the fence the necessary stability.

The uprights B are any suitable uprights for the purpose, a pair of which are tied to the same side of each of the feet A at their lower ends by means of a wire *b*, which is passed diagonally across the front of the uprights and back to the rear side of the foot, one end passing over and on the outside of one upright, and the other end passing under and on the outside of the other upright, and there given a half-twist and the ends turned and passed around the other two corners diagonally opposite each other, back to the front side, where they cross the first part of the tie, and are twisted together to secure the uprights just the desired distance apart to permit the rails to be inserted in position.

The rails C are any rails, boards, or planks suitable for the purpose that may be desired, and are arranged between the uprights in the preferred manner, the form illustrated being a very desirable and common form in this class of fencing.

The tie-brace D is a bar, of either wood or metal, the top end of which is inserted through a top tie-wire *b'*, which passes around the top end of the uprights and top rail in a diagonal direction, as shown herein, and also in my patent above referred to, and the outer end of which is forced down to twist said tie-wire so that it will bind tightly against the parts which it surrounds, said end being there secured to the outer end of the foot in any manner convenient. In my above-mentioned patent this brace passes up alongside the outer face of the uprights; but in my improved construction I secure the top end of this brace on the inside of the uprights—i. e., the side which rests against the foot—greater security being thus provided, as any force which strikes it upon either side will be resisted by the weight and strength of the foot and uprights. Where said brace crosses the uprights a pin, nail, or bolt *d* is preferably inserted through the parts to secure them more rigidly together.

The wedge-shaped stake E is of a width at its upper end substantially the same as the thickness of the rail, and is driven tightly between the lower ends of the uprights under the tie-wire *b* into the ground, and thus secures the fence from being moved or slid out of the position in which it is placed.

My improved fence is built by first tying the lower ends of the uprights to the feet, as described, the tie being sufficiently loose to permit the rails to be driven into place tightly. The rails being put in position as desired, the tie-wire is put around the top of the uprights and top rail and the tie-brace D is inserted at one end therein, and its other end is brought down and secured to the foot, as described, thus tightly binding the parts together and securing great strength and rigidity to the fence, the pin or nail being put in place, and the top end of said brace being placed on the side of the uprights adjacent to the feet, as above described. The fence being in the po-

sition which it is desired it shall occupy, the stakes E are then driven into the ground between the lower ends of the uprights B and under the tie-wire *b'*, their wedge-shaped formation operating to force said uprights apart and tighten said tie-wire around the parts until they are secured rigidly together, and a fence of great strength, extreme simplicity, and of but slight cost is secured.

10 I am aware that wires have been used heretofore in uniting different parts of fences, and I therefore only claim the particular arrangement herein set forth; which differs from other constructions and that shown in my patent above referred to principally in the arrangement by which the uprights are secured to the base-blocks, so that said several parts can be bound together as tightly as desired by driving the stakes to position, and in the
15 20 other detail improvements above specified.

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

1. The combination, in a fence, of the foot
25 A, the pair of uprights B, secured thereto by a tie-wire passing diagonally around both

parts in both directions, the stake E, formed wedge-shaped and driven between the lower ends of said uprights under said tie-wire, the rails C, and the tie-brace D, inserted in the tie-wire *b'* at its top and secured to the foot at its bottom, substantially as set forth. 30

2. In a fence, the combination of the foot A, the uprights B, secured to said foot, as described, the stake E, also arranged as described, the tie-wire *b'* at the top of said uprights, the rails C, and the tie-brace D, inserted in said tie-wire *b'* at one end and secured to the foot at its other, said brace being secured to the side of the uprights which is adjacent to said foot, and having a pin, nail, or similar device inserted through it and one or both of said uprights where they cross, substantially as set forth. 35 40

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 45 4th day of March, A. D. 1889.

WILLIAM V. RUSSELL. [L. S.]

Witnesses:

E. W. BRADFORD,

C. W. H. BROWN.