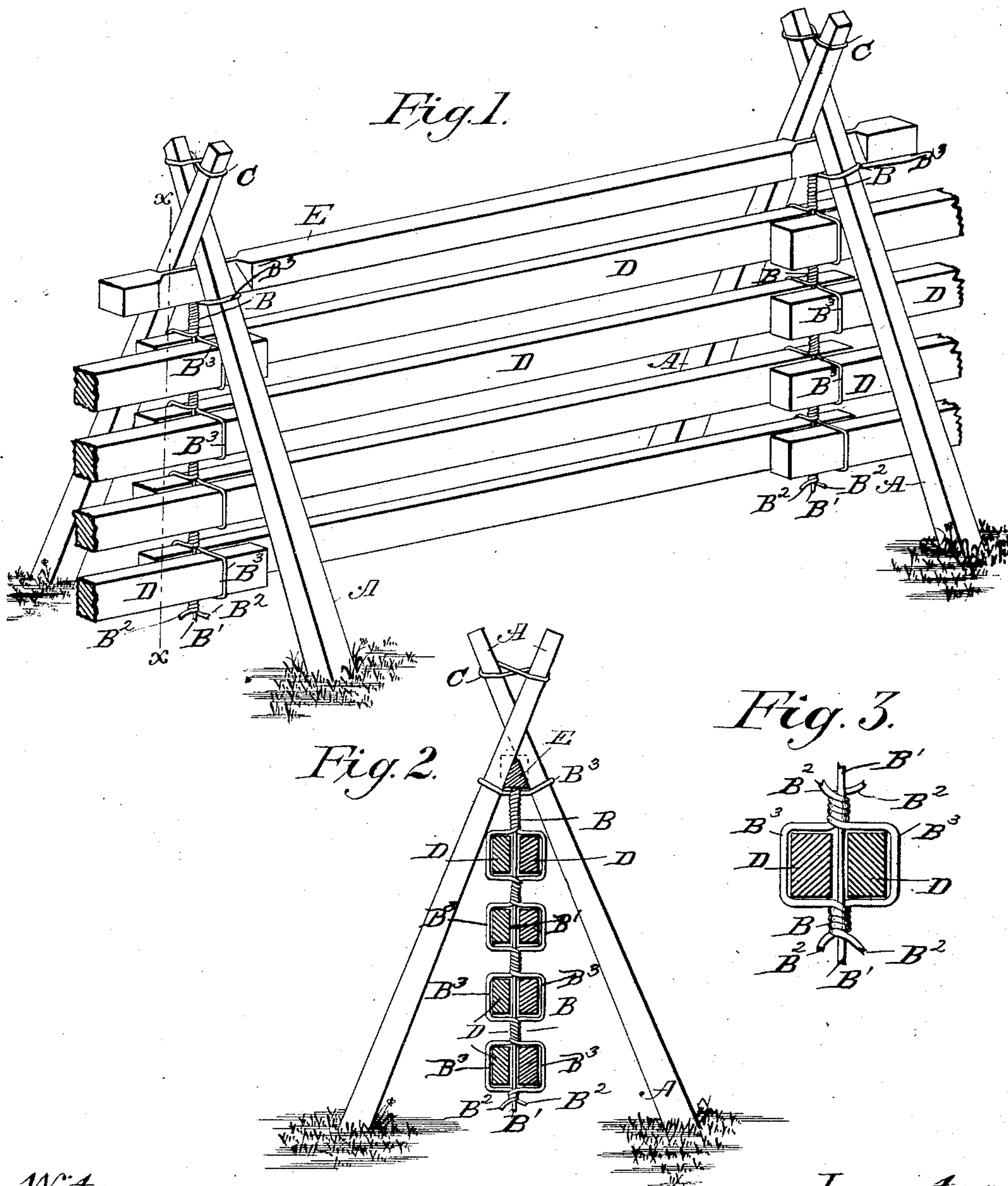


(No Model.)

H. T. LEE & C. PROTSMAN.
FENCE.

No. 370,954.

Patented Oct. 4, 1887.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY T. LEE AND CHARLES PROTSMAN, OF TULLAHOMA, TENNESSEE.

FENCE.

SPECIFICATION forming part of Letters Patent No. 370,954, dated October 4, 1887.

Application filed January 8, 1887. Serial No. 223,809. (No model.)

To all whom it may concern:

Be it known that we, HENRY T. LEE and CHARLES PROTSMAN, of Tullahoma, in the county of Coffee and State of Tennessee, have
5 invented a new and useful Improvement in Fences, of which the following is a specification.

Our invention relates to fences made in panels formed of rails held together by looped-
10 wire hangers and supported upon inclined stakes secured to said panels and to said looped-wire hangers, and suspended at their upper ends to hang between the said inclined stakes.

15 The object of our invention is to provide a rail or board fence which will be inexpensive, strong, and durable, which may be quickly erected, disconnected, removed, or repaired by a single person, and which will be composed
20 of interchangeable parts adapted to fit together without the employment of tie-wires, nails, or other permanent fastenings.

The improvement consists in certain constructions and combinations of parts, herein-
25 after described, and particularly designated in the claim.

In the accompanying drawings, Figure 1 is a perspective of a section of fence constructed in accordance with our invention; Fig. 2, a
30 transverse sectional elevation of the same in the line *xx* of Fig. 1, and Fig. 3 an enlarged sectional detail through the rail-joint and a section of suspension wires or hangers having loops to embrace the rails.

35 The fence is composed of five parts—viz., stakes A, wire hangers B, loops C, panel-rails D, and top rails, E. The stakes A are of any preferred form set up on ends, inclined and crossed at their upper ends above the top
40 rails, E, and secured together by loops C. The wire hangers B are formed of a central suspension-wire, B', and a loop-wire, B², twisted upon the central wire, B', to provide a series of loops, B³, arranged in pairs upon opposite sides
45 of the said central wire, B', through which loops the ends of the panel-rails D are passed. The top rail, E, is beveled to give it a triangular cross-section with inclined sides, against which the inclined stakes A of the fence closely fit
50 and hold the said top rail securely down upon the loop B³ at the upper end of the hanger B. The upper loop, B³, is adjusted to fit stakes of any size by varying the angle of the cross-stakes one with the other, and the loops B³ will
55 hold with equal security the ends of various-

sized rails, while the central wire, B', passes between the adjacent ends of the said rails and serves as a partition between the loops and rails to prevent one rail from sliding over or
60 binding the other.

As the central wire, B', and loop-wires B² are twisted together and extend in an unbroken section from one end to the other end of said
65 hanger, a strong, durable, and sufficiently rigid structure is obtained to firmly hold the ends of the rails against any strains which may be brought upon them.

The top rails, E, being beveled near their ends, will fit closely in the angle between the
70 stakes A and the upper loop, B³, and tie the cross-stakes at one end of the panel with the cross-stakes at the other end of said panel, and support each panel independently of the adjacent panel. Each alternate panel is unpro-
75 vided with a top rail, and the rails or boards in any panel not provided with a top rail may be easily removed, in the same manner as sliding bars of well-known construction, to pro-
80 vide a gap or opening in the fence at any required point in the line of the fence and allow communication between adjacent fields at said points.

The fence may be erected or removed by a single person, one piece at a time, until fin-
85 ished. The suspension wires or hangers are all made of the same pattern, and may be manufactured by suitable machinery and placed upon the market in various sizes. The various parts of the fence being complete in them-
90 selves and interchangeable, may be hauled to the field and set up without tying or twisting the wires and without the employment of other fastenings.

We claim as our invention and desire to se-
95 cure by Letters Patent—

The combination, with the crossed stakes A, top rail, E, and panel-rails D, of the wire
100 hanger B, which connects said stakes below their point of intersection, and also supports the top rail, the same being formed of a central suspension-wire, B', and loop-wires B², which are twisted upon the latter at intervals of space and bent outward at intervening spaces to form the lateral loops B³, that re-
105 ceive the panel-rails, as shown and described.

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