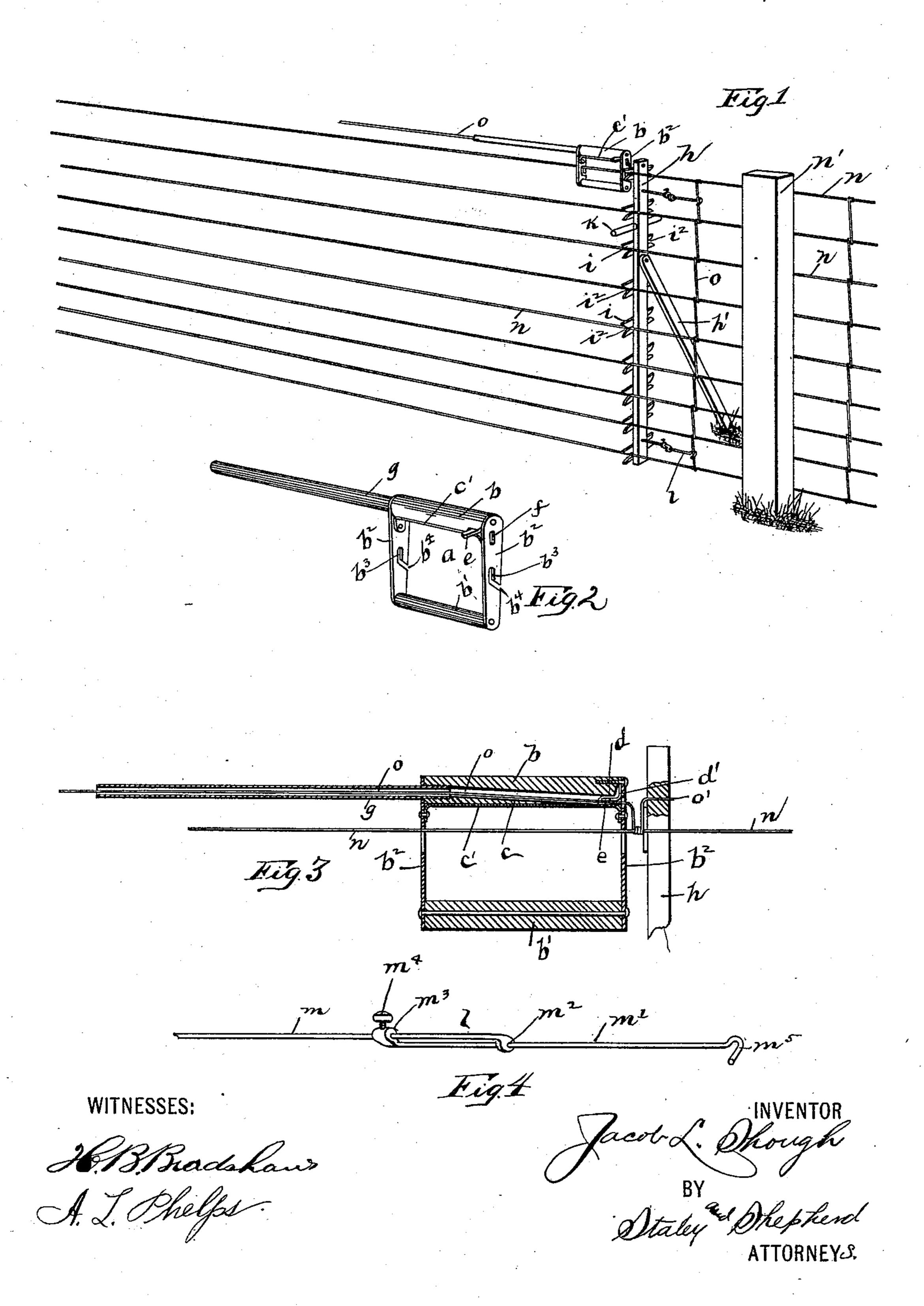
(No Model.)

J. L. SHOUGH.

DEVICE FOR WEAVING CROSS WIRES IN WIRE FENCES.

No. 532,599.

Patented Jan. 15, 1895.



UNITED STATES PATENT OFFICE.

JACOB L. SHOUGH, OF SOMERSET, OHIO.

DEVICE FOR WEAVING CROSS-WIRES IN WIRE FENCES.

SPECIFICATION forming part of Letters Patent No. 532,599, dated January 15, 1895.

Application filed June 4, 1894. Serial No. 513, 398. (No model.)

To all whom it may concern:

Be it known that I, JACOB L. SHOUGH, a citizen of the United States, residing at Somerset, in the county of Perry and State of 5 Ohio, have invented a certain new and useful Improvement in Devices for Weaving Cross-Wires in Wire Fences, of which the following

is a specification.

My invention relates to machines for weavto ing wire fences and the objects of my invention are to produce a simple and inexpensive machine of this class by means of which cross wires may be rapidly and effectively interwoven with the usual longitudinal fence 15 wires and to produce other improvements in details of construction which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which-

Figure 1 is a view in perspective of a wire fence showing my machine in position for the weaver frame. Fig. 3 is a central longitudinal section of the same, and Fig. 4 is a 25 view in perspective of one of the gages em-

ployed in the fence construction.

Similar letters refer to similar parts through-

out the several views.

a represents the weaver the body of which, 30 as shown, consists of two parallel pieces bb', the latter being rounded to form a handle, the ends of said pieces b b' being connected by end plates b^2 . The end pieces b^2 of the weaver frame thus formed are provided about 35 midway of their length with short slotted openings b^3 which lead outward as indicated at b4 through entrance slots formed in corresponding edges of said end pieces.

In the formation of the horizontal top piece 40 b of the weaver frame, I provide throughout the same a longitudinal passage which is indicated at c, the under side of said top piece preferably being bound by a plate c' which extends beneath said piece b and the ends of 45 which are secured to the ends of the piece b^2 of the frame. In forming said piece b, I also cut away a portion of the forward end thereof beneath its point of attachment with the forward end piece b^2 as indicated at d, this cut 50 or recess being formed for the purpose of receiving an angular spring strip d' the outer

ner side of the forward end piece b^2 and the lower horizontal arm of which extends as shown within the passage c of the arm b. This 55 inner horizontal portion of said spring strip is provided with an outwardly projecting finger piece e. I also form in the forward end piece b^2 opposite and communicating with the forward end of the passage c a short longi- 60 tudinal slotted opening f. Screwed or otherwise secured within the rear end of the frame passage c is the forward end of a rearwardly

extending tubular guide arm g.

In the construction of my machine I also 65 employ a brace frame for the longitudinal wires of the fence, which as indicated in the drawings, consists of a vertical bar h to which is fulcrumed at a point above the center of its height a brace arm h' which is adapted to 70 be inclined outwardly therefrom as shown. On that face of the bar h which we will term the rear face, are secured at the centers of weaving. Fig. 2 is a view in perspective of | their lengths cross plates i, the latter being arranged one above the other at intervals 75 corresponding with intervals between the longitudinal wires of the fence on which the same is to be employed. As shown in the drawings, each end of each of the cross bars or plates i is notched or recessed centrally at 30 i^2 . I provide the upper portion of the bar hwith oppositely located projecting handle

portions k.

I also employ in conjunction with my machine a gage for regulating the distances be- 85 tween the cross wires of a fence, said gage being shown more clearly at l in Fig. 4 of the drawings. This gage which is formed in two sections consists of a rod m which is adapted to be rigidly connected with and extend from 90 the bar or standard h near the upper and lower ends thereof. The second section of the gage which is indicated at m' also consists of a rod which passing loosely through an opening in the downturned outer end of the rod 95 m and as indicated at m^2 has formed with its inner termination an enlargement or guide projection m^3 through which passes and slides the rod m. The gage thus formed is adapted to be increased and decreased in length by 100 sliding said rods away from or toward each other and fixing them at the desired length by turning inward a set screw m4 which enor vertical arm of which is secured to the in- I ters the enlargement m^3 of the rod m'. The

outer end of the rod m' is provided, as shown,

with a suitable hook projection m^5 .

In utilizing my invention for the purpose of weaving or supplying the cross wires in a 5 wire fence, the longitudinal wires of the fence which are indicated at n are first secured in their positions to the posts n'. The brace frame is then so supported that said longitudinal wires are caught within the notches to of corresponding ends of the cross plates iand the brace arm h' is made to bear against the ground and at the desired angle with the standard or bar h. A cross wire o of the desired length is then inserted, as shown in the 15 drawings, through the tubular extension g of the weaving frame, thence through the passage c of the frame arm b passing beneath the horizontal portion of the spring d' and extending outward through the slotted open-20 ing f of the forward end piece b^2 . This outwardly projecting end which is indicated at o' is, as shown in the drawings, adapted to be inserted in the opening in the upper end portion of the bar h or otherwise engaged with 25 said bar and the longitudinal wire n to which said cross wire is first to be attached, is caused to be engaged, as shown, with the recesses or slotted openings b^3 of said frame a.

The parts of my device being in the positions described the frame a is rotated about said first longitudinal wire resulting as indicated more clearly in Fig. 3 of the drawings, in the wire o being wound or closely twisted about said longitudinal wire. During this process it is evi-

dent that the wire o will be gradually drawn outward through the tube portion g and frame portion b, the spring d' which bears thereon serving as a tension brake to regulate the feed of the wire. Having thus made the re-

quired or desired number of turns of the cross wire about said horizontal wire, the weaving frame is disconnected from said first wire, dropped downward and similarly connected with the next succeeding lower longitudinal

45 wire where the process of rotation is repeated. In this manner it is evident that the cross wire will be carried downward to the bottom of the fence or terminated at any one of the wires n. The first cross wire having thus been

frame may be moved onward in the direction of the fence and connected therewith in the manner first prescribed and the operation repeated. In order to equalize the distances be-

tween the vertical strands of the cross wires, I employ the gage l the hook m^5 being connected with the last completed cross wire, as shown in Fig. 1 of the drawings.

From the construction which I have shown | 60 and described herein, it will be seen that the

cross or vertical wires of the fence may be made to extend partially or wholly throughout the height of the latter, and that the weaving frame is of such construction as to admit of its being rotated within a comparatively 65 small space, thus allowing the longitudinal wires of the fence to be arranged comparatively close to each other if desired.

Owing to the fact that the cross plates i of the bar h are arranged to project on opposite 70 sides thereof, it is evident that the brace frame might be employed on either side of the fence.

It is evident that my improved weaving device may may be produced at a reasonable cost of manufucture; that its operation is 75 simple and rapid and that a fence constructed thereby will be at once strong and durable.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a device for weaving cross wires in wire fences, the combination in a weaving frame, of a substantially rectangular frame a consisting of parallel pieces b, b' and end pieces b^2 , said piece b having a passage therethrough, and said end pieces b^2 having recesses or open slots b^3 therein, and one of said end pieces having an opening f which communicates with the passage through the arm b, substantially as and for the purpose specified.

2. In a device for weaving cross wires in wire fences, the combination with the weaver frame a consisting of the pieces b, b' and end pieces b^2 connecting the same, a passage through said arm b, and a slotted opening 95 communicating with said passage through one of said end pieces b^2 , of a spring strip d' having one of its ends secured to said frame and its other end projecting within the passage of the arm b, a tubular extension g of said 100 arm b, and means for detachably journaling said frame on a fence wire, substantially as and for the purpose specified.

3. In a device for weaving cross wires in a wire fence, the combination with the weaver frame a consisting of parallel arms b, b' and end pieces b^2 , a passage through said arm b, a slotted opening in one of the end pieces b' communicating with said passage, and means for detachably connecting or journaling said frame with a longitudinal fence wire, of a brace frame consisting as described of a bar or standard h, notched plates secured thereto and projecting therefrom, and a brace arm h' jointedly connected therewith, substantially 115 as and for the purpose specified.

JACOB L. SHOUGH.

In presence of— C. C. SHEPHERD, R. L. GILLIAM.