

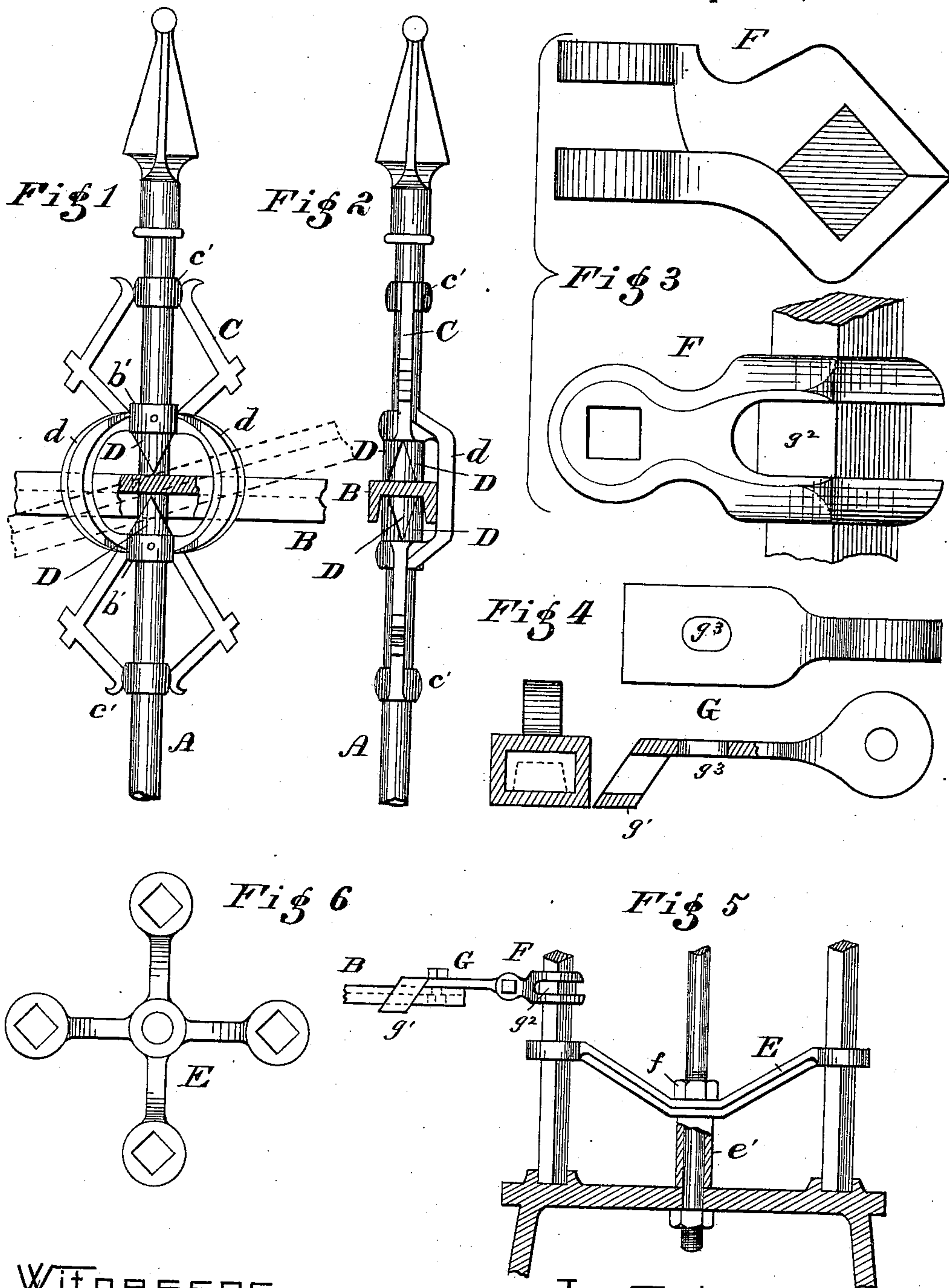
(No Model.)

2 Sheets—Sheet 1.

L. T. & W. H. BROOKHART.
METALLIC FENCE.

No. 326,535.

Patented Sept. 15, 1885.



WITNESSES

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INVENTOR

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By N. E. Whitney Atty.

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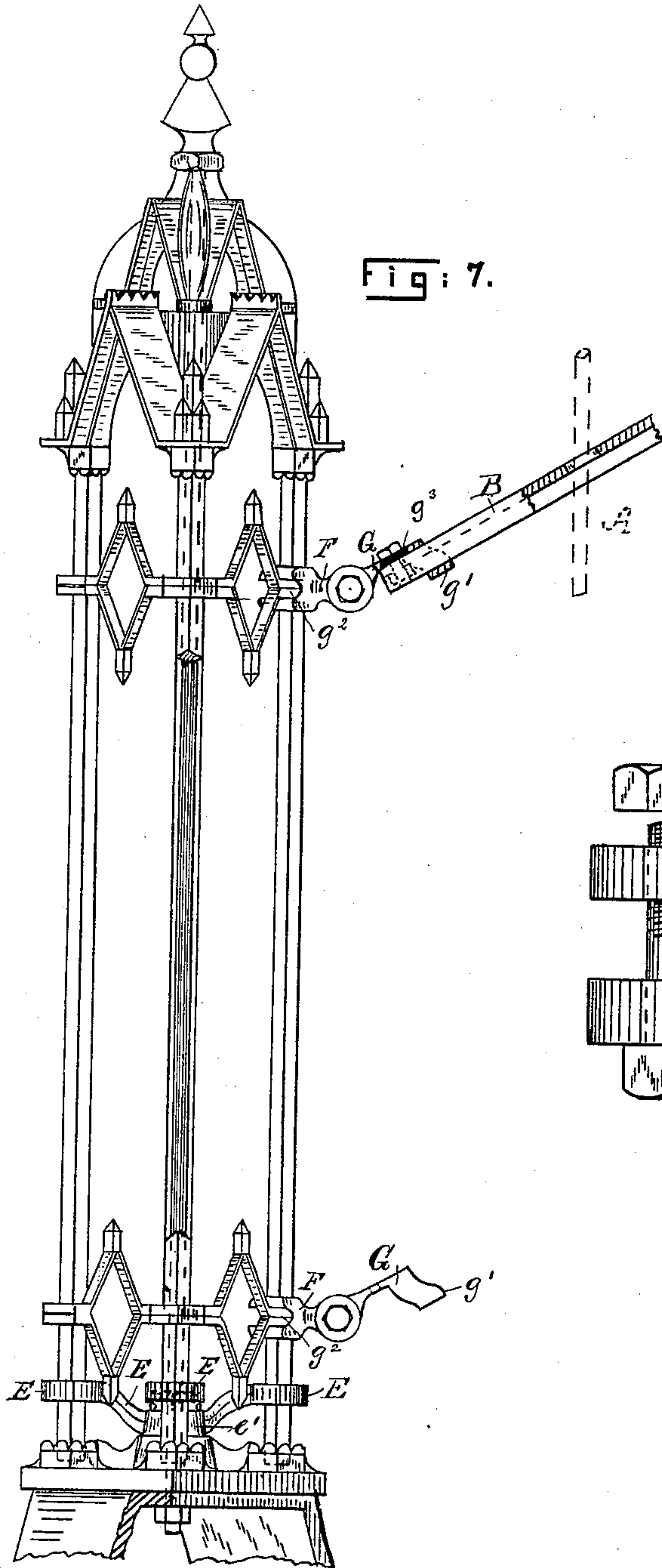
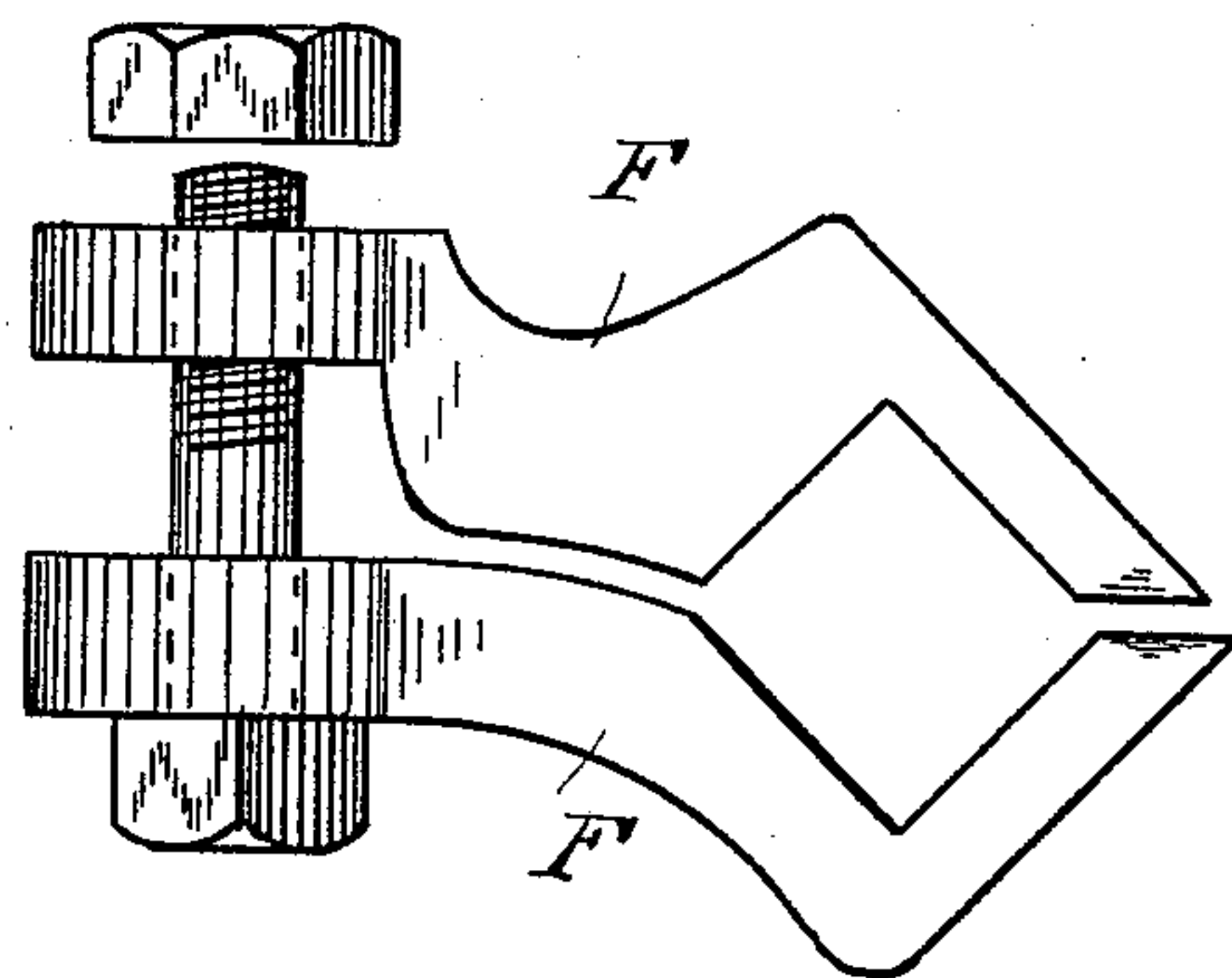


Fig. 7.

Fig. 8.



Witnesses:

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Inventors:

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By O. E. Whitney
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UNITED STATES PATENT OFFICE.

LEVI T. BROOKHART AND WILLIAM H. BROOKHART, OF LIMA, OHIO; SAID
WILLIAM H. BROOKHART ASSIGNOR TO SAID LEVI T. BROOKHART.

METALLIC FENCE.

SPECIFICATION forming part of Letters Patent No. 326,535, dated September 15, 1885.

Application filed December 15, 1884. (No model.)

To all whom it may concern:

Be it known that we, LEVI T. BROOKHART and WILLIAM H. BROOKHART, of the city of Lima, county of Allen, and State of Ohio, have invented certain new and useful Improvements in Metallic Fences, of which the following is a specification.

This invention relates to metallic fences, the object of the invention being to provide a fence which may be adjusted to different grades, and which shall be cheap and simple in construction, and be easily set up.

The invention consists in certain details of construction of metallic fences, substantially as hereinafter described.

Figure 1 represents in front elevation a portion of a metallic fence as constructed in accordance with our invention, the dotted lines illustrating the channel-rail at an inclination to the picket. Fig. 2 is a side elevation of the same, the channel-rail being shown in section. Fig. 3 is a plan and side view of the clutch which forms a part of the connection between the post and channel-rail. Fig. 4 is a plan, side, and end view of the box-sleeve that connects the channel-rail and clutch. Fig. 5 represents in vertical section a portion of a fence-post as provided with our improvements, and Fig. 6 is a plan view of the brace which connects the standards of the post. Fig. 7, Sheet 2, represents in side elevation a post constructed in accordance with our invention and Fig. 8 shows the two parts of the clutch as separated, and also shows the means for securing said parts together.

The picket A, which may be of ordinary pattern, will preferably be used with a channel supporting-rail, B, of the shape illustrated in Figs. 1, 2, and 4, (other forms of rail might be used, if desired,) the said rail having a slightly-elongated slot through its central web, through which the picket is inserted.

The ornament C, by means of which the channel-rail and picket are secured in place, is provided at its upper and lower ends with picket-encircling eyes c' , as in ornaments of ordinary construction.

Located upon the ornament C, at a suitable distance above and below the center, are picket-engaging rings b' , connected together by means of arms d , which extend around the

channel-rail B on one side and form bearings for the said rail to prevent lateral movement.

The ornament C will be of cast metal, as usual, the picket-engaging eyes b' being slightly out of line with one another, which makes it necessary for them to be sprung slightly when inserting the picket A, the tension thus maintained holding the picket in place.

Projecting from the rings b' , in a line with and toward each other, are prongs or spurs D, said prongs extending on each side of the picket A, and bearing against the upper and under side of the channel-rail, substantially in a line with the central longitudinal line of the picket A. As will be noticed in the drawings, the prongs D are V-shaped, and thereby form a minimum point of contact for the channel-rail, and, being central with relation to the center of the picket, as described, form an axial bearing for the rail and permit it to be adjusted at different angles with relation to the said picket, to adapt the fence to different grades, which is very desirable for stair purposes, or when fencing uneven ground.

To more thoroughly secure the picket and parts in place, the rings b' will be struck with a punch to bind them against the picket, as shown in Fig. 1. If desired, however, the picket might be provided with a slot and a portion of the ornament be driven therein to secure the same results.

In the post illustrated in Fig. 5 the standards (four in number) are seated in square bearings formed in bosses on the cap of the standard, the said standards being secured together with the usual ornaments, and having a central stay-rod extending from the cap of the post through the cap of the base, to which it is bolted, all as usual.

Connecting the standards of the post together is a brace, E, which brace will be, preferably, of cast metal, having arms provided with openings to correspond to the shape of the standards, said arms grasping the standards.

Depending from the center of the said brace E is a sleeve, e' , through which the central stay-rod of the post extends, the said sleeve resting (when the brace is drawn taut by means of the nut f , which engages the central

stay-rod of the post and abuts against the center piece of the brace E) upon the cap of the base, thereby securing the standards rigidly together and preventing wobbling.

5 The channel-rail and post are connected together by means of a clutch, F, having arms at one end adapted to grasp the standard of the post, the said arms being of a shape to correspond to the cross-sectional shape of the
10 standard, the said clutch being formed in two pieces and provided with a slotted eye-shaped end, the said eye-shaped end being engaged by a box-sleeve, G, which engages the rail B, and which is bolted thereto, as shown in the
15 drawings, Fig. 5, the said sleeve being provided with a rail-supporting piece, g' , to hold the rail in position while being connected thereto, and having an eye at its opposite end to engage the eye-shaped end of the clutch F.

20 The standard of the post to which the clutch is connected is provided with a band, g^2 , the said band being intermediate between the prongs of the clutch F, and forming a bearing therefor to prevent vertical movement. This
25 may, however, be dispensed with, as the tension of the clutch through the medium of the rail will hold the same in the desired position.

The clutch F and sleeve G are secured together by means of a bolt and nut, which al-
30 lows the same to be raised or lowered as desired, the bolt forming the axis. The box-sleeve G will preferably have an elongated slot, g^3 , in its upper web, through which a bolt is extended to bolt the same to the channel-
35 rail, the said elongated slot allowing the rail to extend more or less during expansion and contraction.

We do not desire to limit ourselves to the exact construction of parts illustrated in the
40 drawing, as other constructions might be used without departing from our invention.

We claim—

1. The ornament C for metallic fences, provided with arms d , extending around the channel-rail to hold the rail and picket in place, the said ornament being provided with down-
45 wardly and upwardly extending V-shaped prongs, bearing upon the upper and lower side of the channel-rail at two sides of the picket A and in a line with the center of said picket, said prongs forming an axial bearing for and
50 allowing the channel-rail to be adjusted to different angles with relation to the picket to adapt the fence to different grades, substantially as described.

2. A post for metallic fences, the standards of which are seated in the cap of the base, as shown and described, the said post being provided with a central stay-rod extending from the cap of said post down through the cap of
60 the base to which it is bolted, and a brace engaging the standards of the post and encircling the stay-rod, said brace being held in place by means of a nut upon the central stay-rod, substantially as and for the purpose described.

3. The brace E for metallic fence-posts, having arms provided with openings corresponding to the cross-sectional shape of the standards and engaging the said standards, said
65 brace being provided with the depending sleeve e' , having a central opening, through which the central stay-rod of the post may extend, substantially as and for the purpose set forth.

In witness whereof we have hereunto set
our hands and seals at Springfield, Ohio, this
27th day of November, A. D. 1884.

LEVI T. BROOKHART. [L. S.]
WILLIAM H. BROOKHART. [L. S.]

In presence of—

SETH. S. WHEELER,
WILLIAM J. HILL.