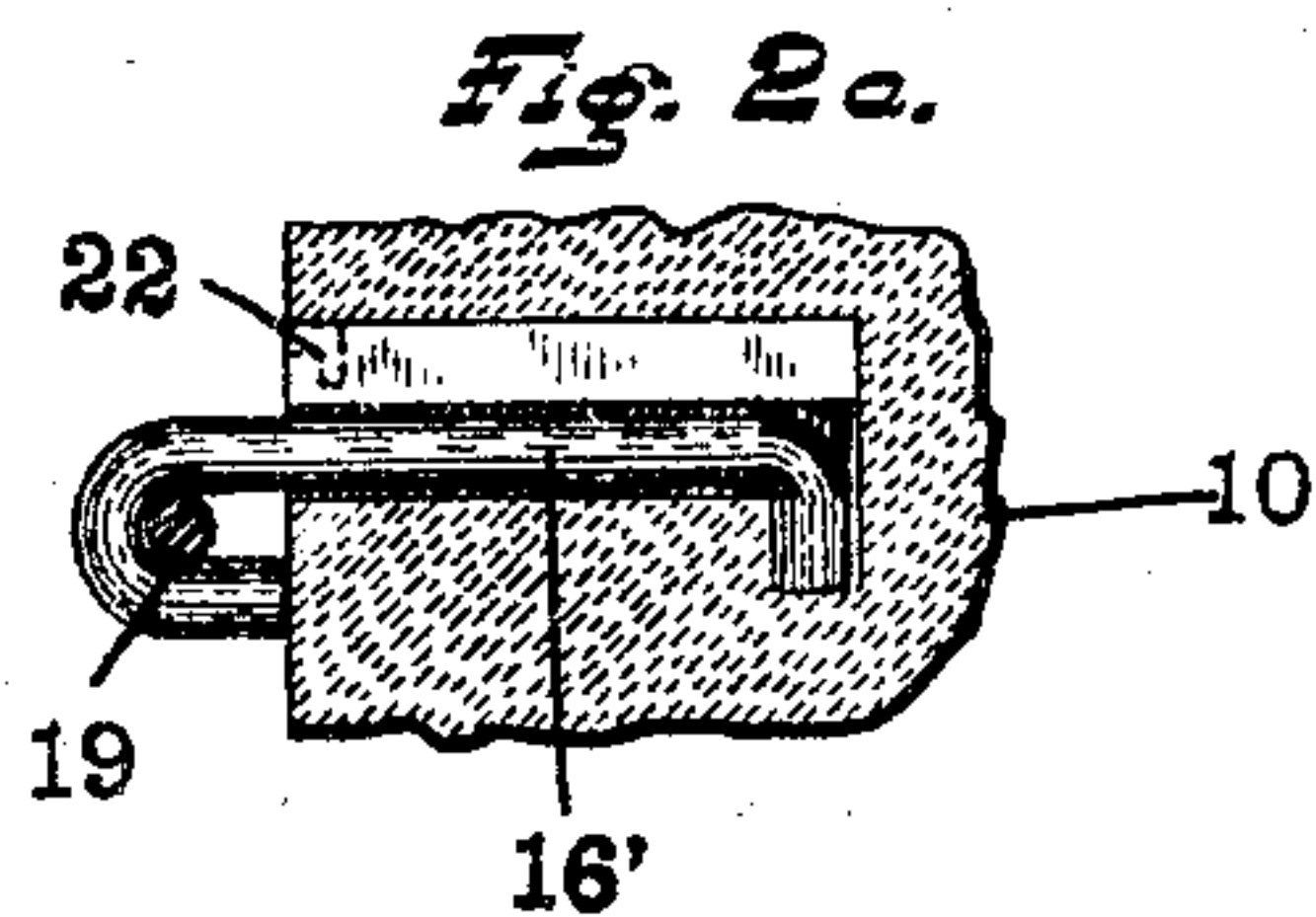
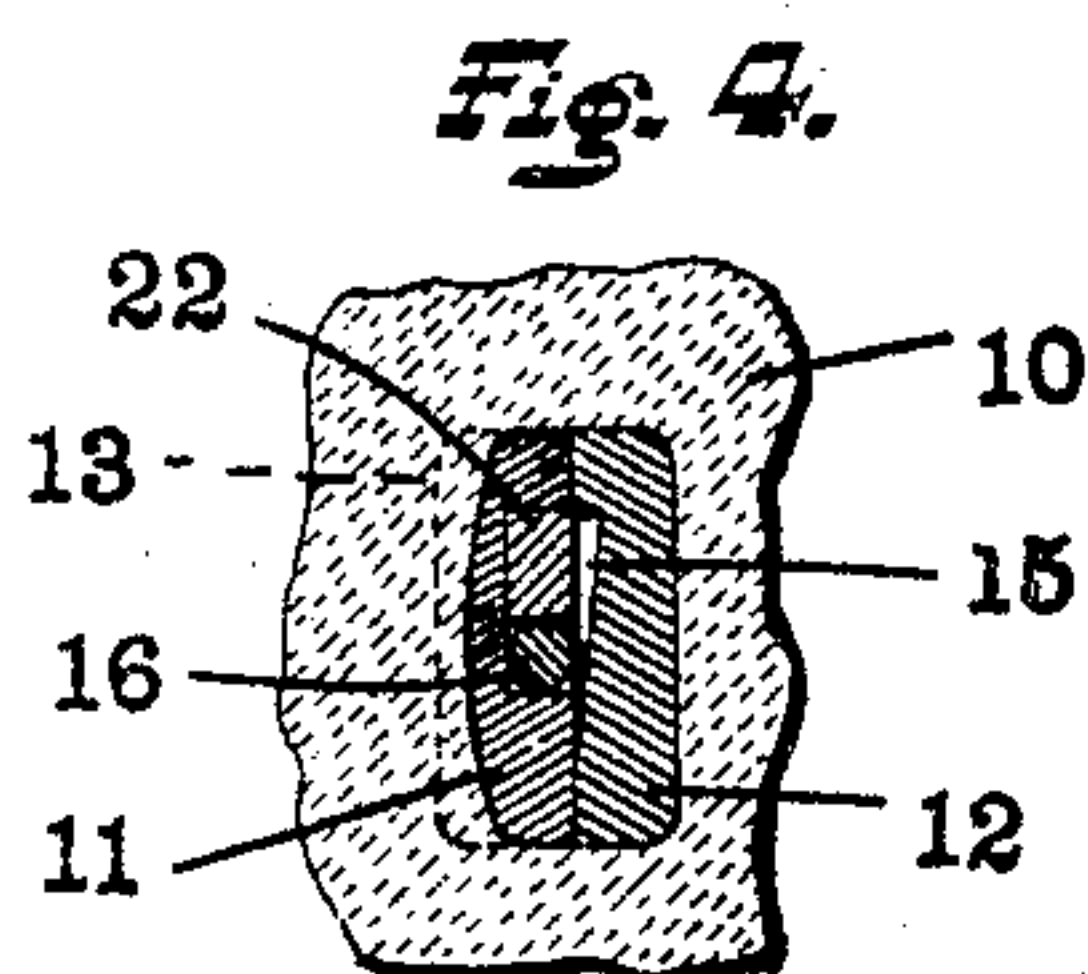
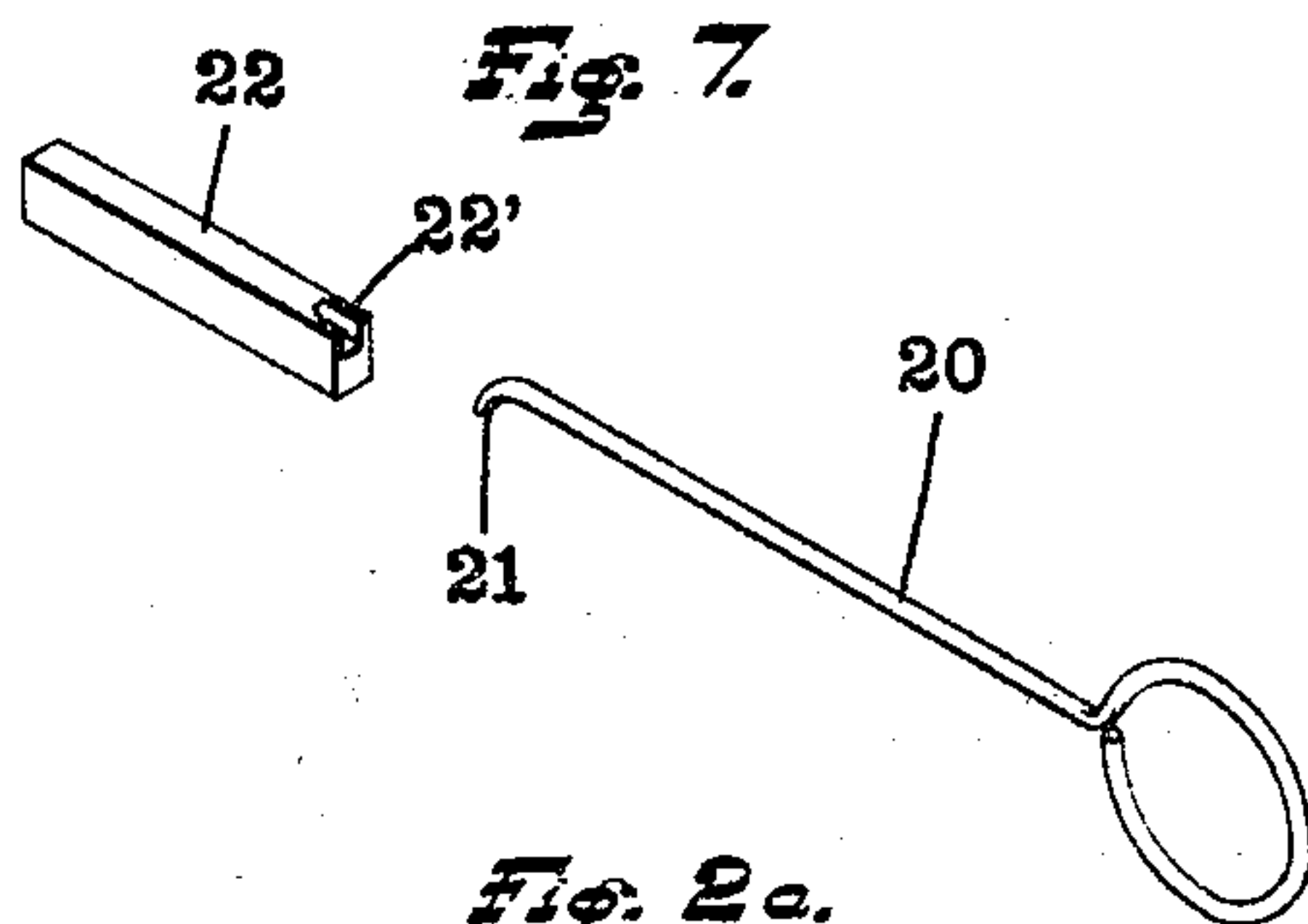
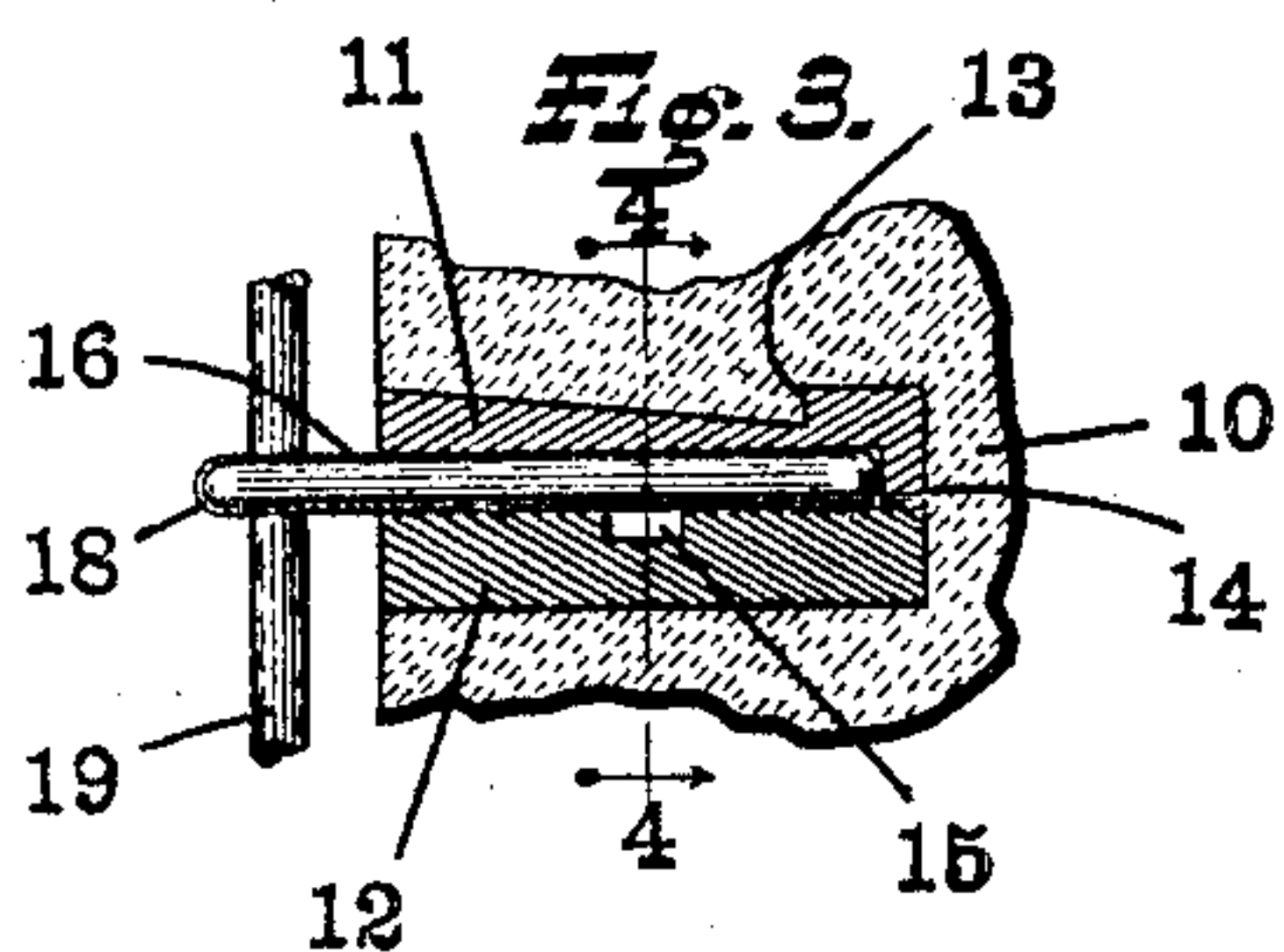
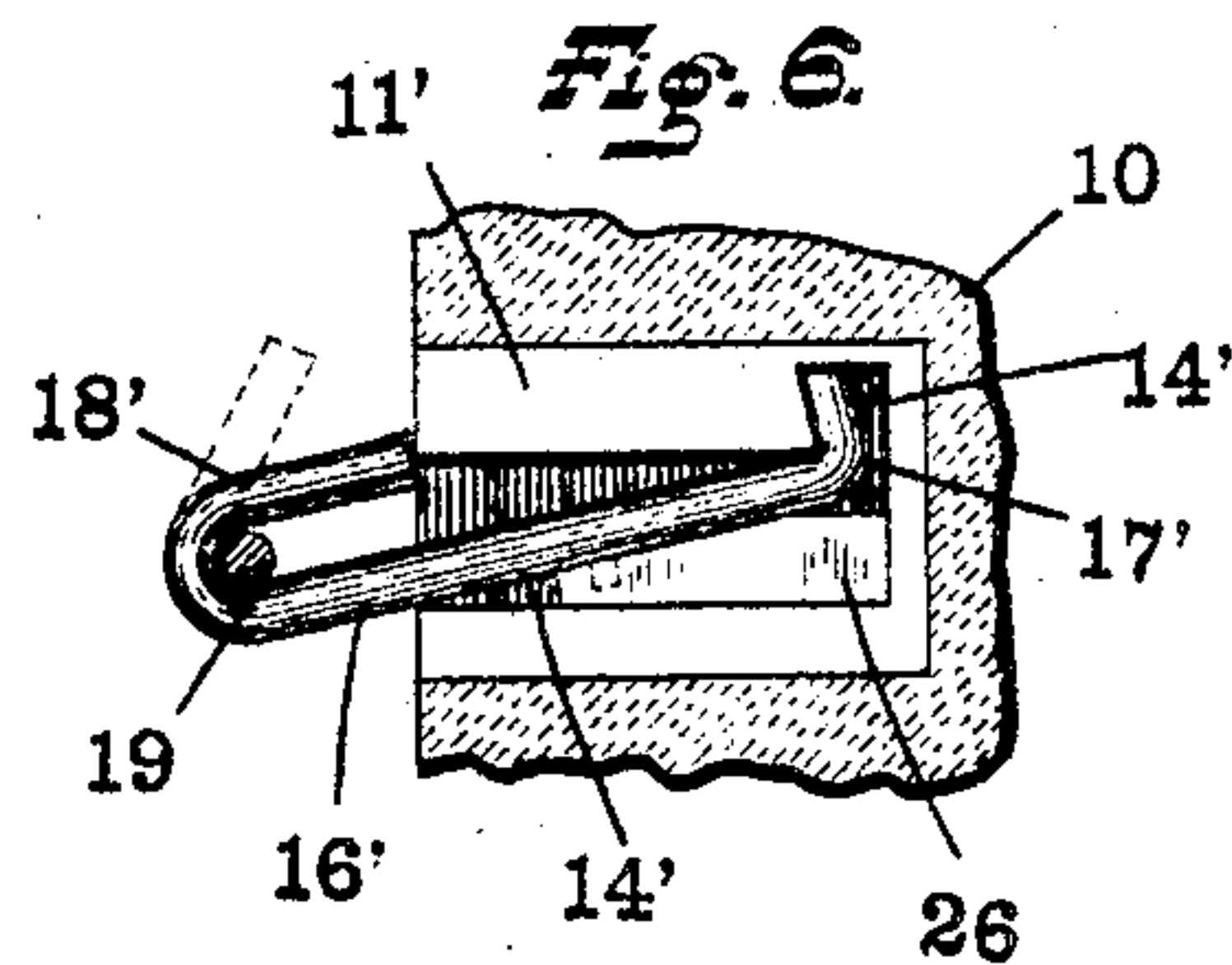
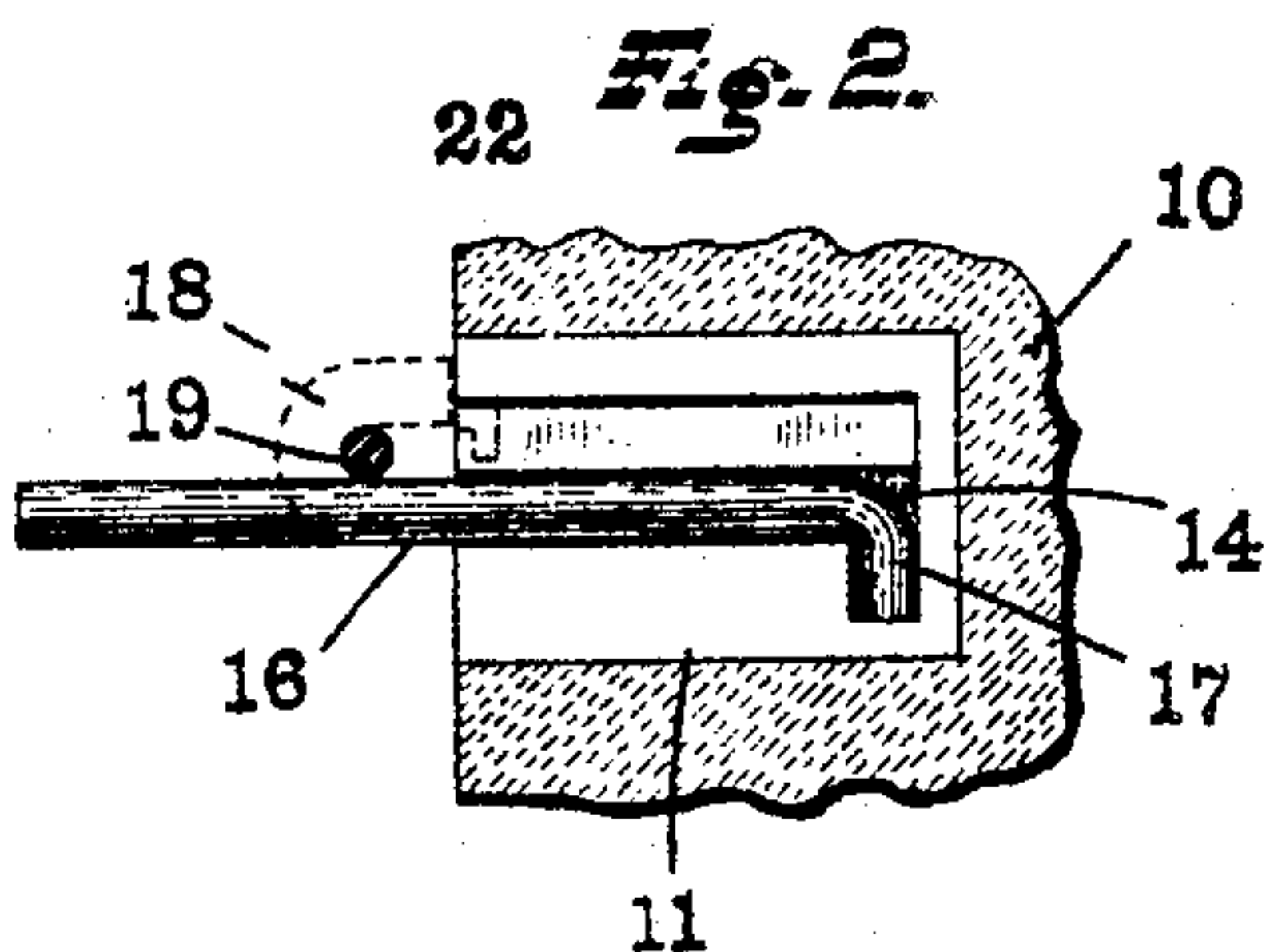
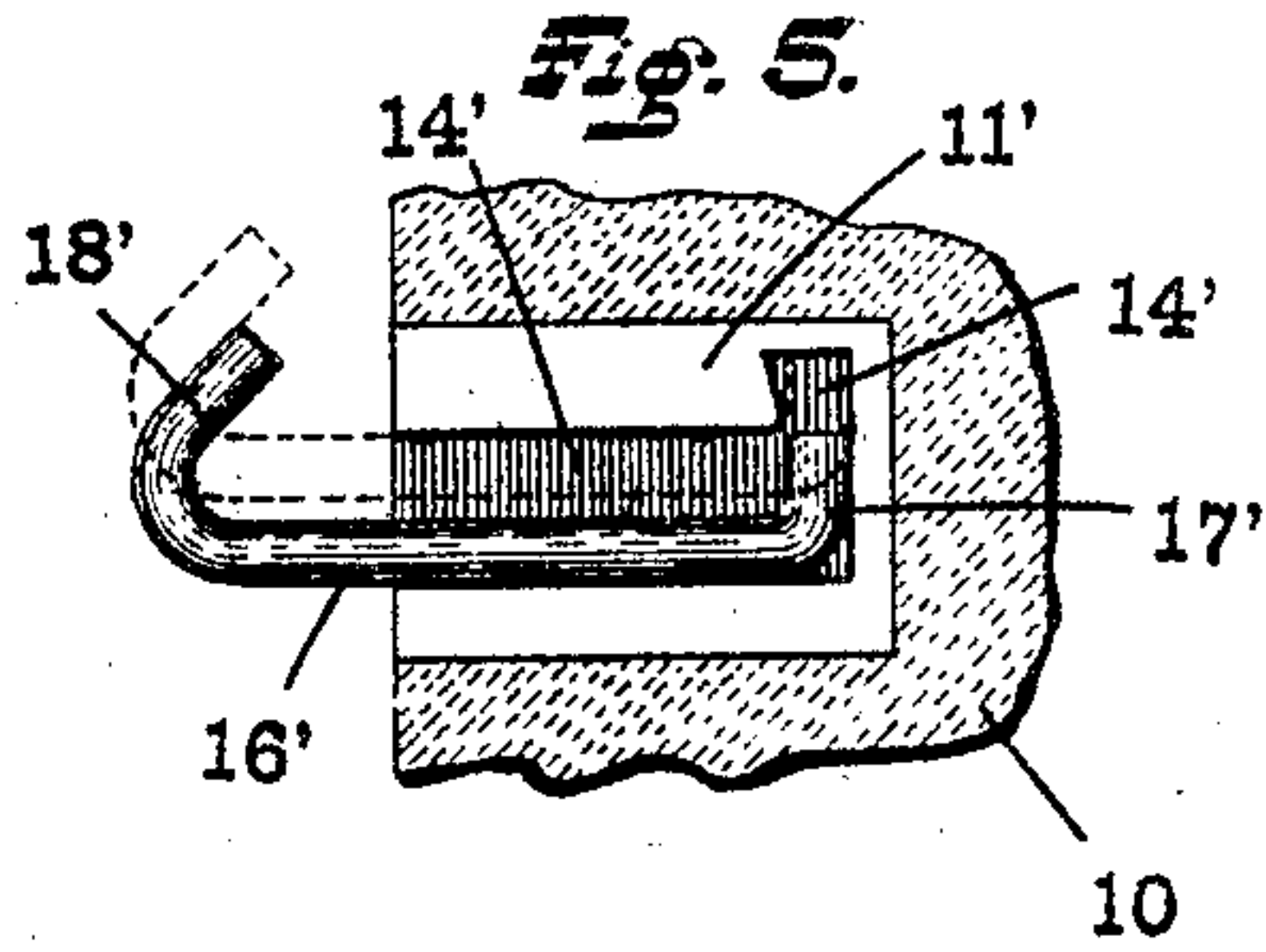
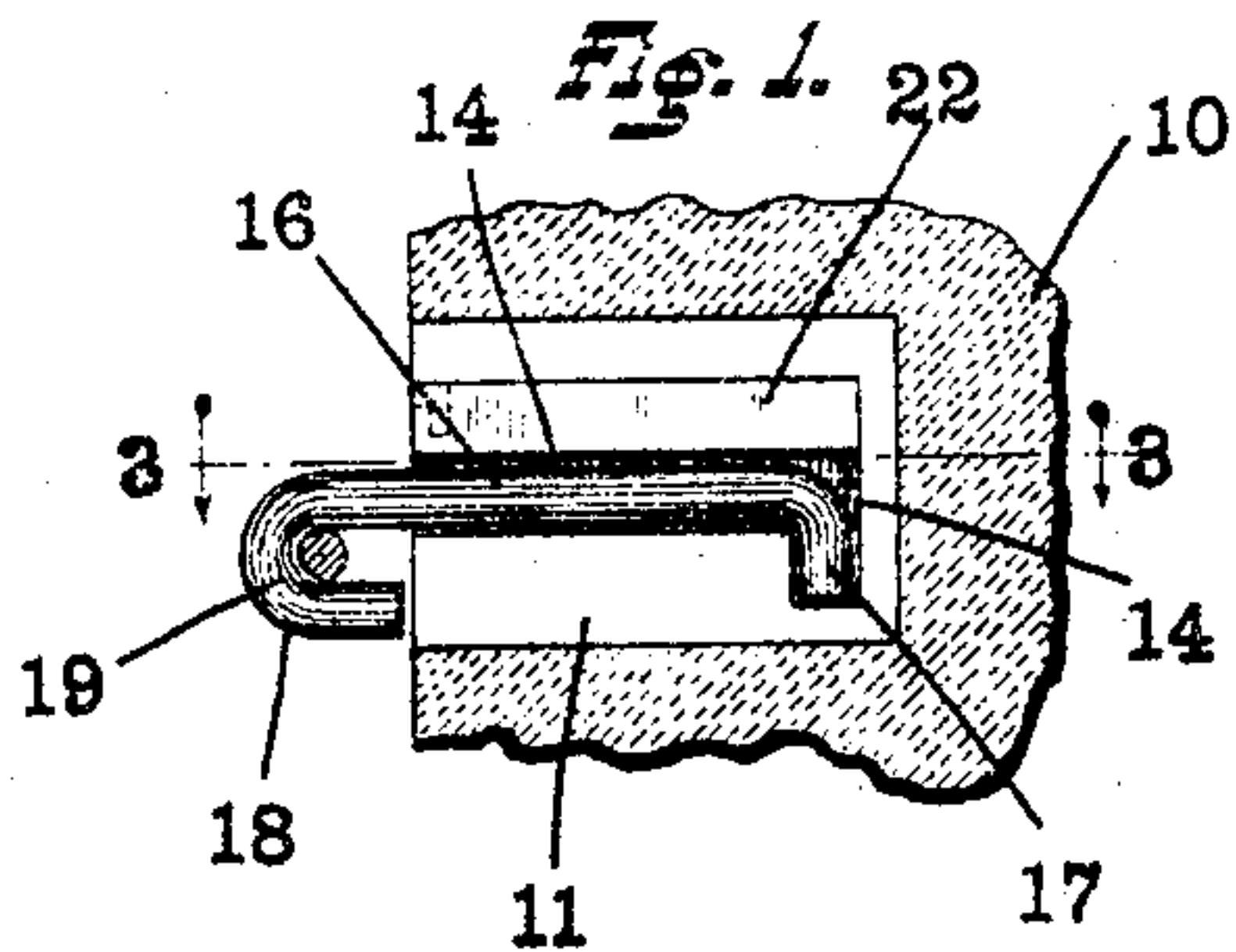


No. 798,046.

PATENTED AUG. 22, 1905.

W. L. NORTHAM.
REMOVABLE FABRIC FASTENER FOR CONCRETE POSTS.
APPLICATION FILED JUNE 15, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIE L. NORTHAM, OF SHERIDAN, INDIANA.

REMOVABLE FABRIC-FASTENER FOR CONCRETE POSTS.

No. 798,046.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed June 15, 1905. Serial No. 265,342.

To all whom it may concern:

Be it known that I, WILLIE L. NORTHAM, a citizen of the United States, residing at Sheridan, in the county of Hamilton and State of Indiana, have invented certain new and useful Improvements in Removable Fabric-Fasteners for Concrete Posts, of which the following is a specification.

In the manufacture of fence-posts from concrete it is necessary to provide some means by which the fence fabric may be readily attached to the posts. When such means consists of metal portions, said metal portions are less durable than the body of the posts; and the object of my present invention is to provide a structure of such a character that all of the metal fastening portions may be readily removed and replaced.

The accompanying drawings illustrate my invention.

Figure 1 is a central vertical section of a portion of a concrete post equipped with one form of my improved fastening, one-half of the casing being removed. Fig. 2 is a similar view showing a slight modification in the shape of the fabric-fastening member. Fig. 2^a is a view similar to Fig. 2, illustrating a suggested form wherein the receiving-opening for the fabric-fastening member is formed directly in the concrete instead of in an insertible metallic casing. Fig. 3 is a section on line 3 3 of Fig. 1; Fig. 4, a section on line 4 4 of Fig. 3; Fig. 5, a view similar to Fig. 1, illustrating a modified form of the structure, the parts being shown in full lines in a position during insertion of the fabric-fastening member; Fig. 6, a view similar to Fig. 5, showing the parts in final position; Fig. 7, a perspective detail of the filling member illustrated in Figs. 1, 2, and 4 and the instrument for withdrawing the same.

In Figs. 1, 3, and 4, 10 indicates the main body of the concrete post, and 11 and 12 indicate mating portions of a metallic casing. The member 11 has its outer face provided with a transverse projection or shoulder 13, which serves to prevent accidental withdrawal of the casing from the body 10. Formed in the inner face of member 11 is an L-shaped recess 14, the toe of the L being preferably downturned. The member 12 is straight and smooth upon its outer face and on its inner face is provided with a recess 15, the purpose of which will appear. The fabric-fastening member 16 is preferably formed of wire, consisting of a main shank, one end of

which is turned substantially at right angles to the main body to form a finger 17, adapted to enter the toe of the L-shaped recess 14, and the outer end of which is doubled upon itself at 18 to form a crotch into which a running-wire 19 of the fence fabric may be introduced. The portion 18 may be doubled back on the same side as the finger 17, as shown in Figs. 1, 5, and 6, or upon the opposite side, as shown in Fig. 2.

In operation the casing 11 12 is inserted in the concrete at the time of formation of the post, and just before the concrete has entirely set the instrument 20, having an inner end 21, is introduced into the recess 14 and the instrument turned to introduce the finger 21 into the recess 15, thus making it possible to withdraw the casing member 12 from the post. The member 11 may then be transversely displaced in the post, so as to free its shoulder 13 from the corresponding shoulder formed in the post, whereupon the casing member 11 may be withdrawn. The casing members are then replaced in inverse order, and after the fabric-fastening member 16 is attached to the fabric, as already explained, its inner end is projected into the L-shaped recess 14 and its finger 17 dropped into the toe of said recess, as shown in Fig. 1. A filling member 22 is then introduced into the shank of the L-shaped recess 14 above the main shank of the fastening member 16, so as to thus hold the parts in position. The outer end of the filling member 22 is provided with a notch 22', into which the finger 21 may be introduced, so that in the form shown in Fig. 1 if it is desired to remove the several metallic portions the instrument 20 is used to first withdraw the filling member 22. The fastening member 16 may then be lifted and withdrawn, the casing member 12 may then be pulled out, and the casing member 11 then shifted transversely and pulled out.

In the form shown in Fig. 2, where the portion 18 is upturned instead of being downturned, the shape of its outer end is such as to permit the introduction of the filling member 22, and the outer end is then doubled back upon the shank, as indicated in dotted lines in Fig. 2, thus serving to prevent withdrawal of the filling member except upon either purposely bending the upturned portion 18 outward or cutting it off.

In the form shown in Figs. 5 and 6 the casing member 11' is substituted for the casing member 11, and the mating casing member is not shown, as it will be the same as casing

member 12. In the member 11' the L-shaped recess 14' is substantially the same as the recess 14, except that the toe of the L is turned up. The fabric-fastening member 16' is similar to the fastening member 16, (shown in Fig. 1,) except that the returned portion 18' is only partially bent to final position, and the portion 18' lies upon the same side of the body 16' as does the finger 17'. In operation the parts are introduced in the manner illustrated in Fig. 5 and then lifted upward to the position shown in dotted lines in Fig. 5. Thereupon a filling member 26 is introduced beneath the body 16', and the filling member is formed with its upper outer corner beveled, so that the body 16' may be dropped down to the position shown in full lines in Fig. 1, the outer end 18' thereof, however, occupying the position indicated in dotted lines in the same figure. The running-wire of the fence fabric 19 is then introduced, as shown in Fig. 6, and the end 18' bent downward to the position shown in full lines in Fig. 6, the end 18' thus serving to prevent any upward swing of the fastening member 16', and thus locking all of the parts in position. In order to withdraw or renew the parts of the fastening shown in Figs. 5 and 6, it is first necessary to either bend the end 18' backward or to cut it off. The body 16' may then be swung upward to the position shown in dotted lines in Fig. 5 and the filling member 26 withdrawn. The fastener member 16' will then drop in the position shown in full lines in Fig. 5, whereupon it may be retracted, and the two casing members, of which the member 11' is one, may be withdrawn from post in the manner already described.

In the construction shown in Fig. 2^a the L-shaped recess is formed directly in the concrete post and the fastening member 16' will be held into position by a filling member 22. It will be readily understood that the construction shown in Figs. 5 and 6 may be modified in the same manner without departing from the broad idea of my invention. I prefer, however, the construction in which the L-shaped recess is formed in the removable metal members, and it is desirable that the L-shaped recess be formed entirely in that one of the removable members which ordinarily (the member 11) is not withdrawable from the post until after the other mating member has been withdrawn.

It will of course be understood that the recess 14 may be of any form so long as its inner end has a dimension greater than the outer open end of the recess, and the term "L-shaped" is used generically in the specification and claims to define such a recess.

I claim as my invention—

1. The combination, with a main body of a post having a transverse recess formed therein with its inner portion of greater dimension than its outer end, of a fabric-fastening con-

sisting of a main body, an inner finger projecting transversely from the main body, and an outer fabric-receiving end, and a filling member adapted to fill a part of the shank of the recess when the finger of the fabric-fastener has been projected into the inner larger end of the recess.

2. A means for attaching fence fabric to posts, consisting of a casing having an L-shaped recess formed therein with the base of the L innermost, a fastener member consisting of a main shank, an inner transversely-projecting end adapted to enter the toe of the L-shaped recess, and an outer fabric-receiving end, and a filler member adapted to fill a portion of the L-shaped recess after the inner end of the fastener member has been projected into the toe of the L-shaped recess.

3. A means for attaching the fence fabric to posts, consisting of a pair of mating casing members one of which is provided with an external projection and has formed in its inner face an L-shaped recess with the base of the L inward, and the mating casing member transversely withdrawable from the post, a fabric-fastener consisting of a main shank, an inner transversely-displaced end adapted to enter the toe of the L-shaped recess, and an outward fabric-receiving end, and a filler member adapted to fill a portion of the shank of the L-shaped recess after the inner end of the fastener member has been projected into the toe of the L-shaped recess.

4. A means for attaching fence fabric to posts, consisting of a pair of mating casing members one of which is provided with an external projection and has formed in its inner face an L-shaped recess with the base of the L inward, and the mating casing member transversely withdrawable from the post, a fabric-fastener consisting of a main shank, an inner transversely-displaced end adapted to enter the toe of the L-shaped recess, and an outward end to receive a fence fabric, and a filler member having a tapering end which filler member is adapted to fill a portion of the inner end of the shank of the L-shaped recess after the inner end of the fastener member has been projected into the toe of the L-shaped recess, the arrangement being such that the outer fabric-receiving end of the fastener member may be thereafter doubled upon the shank toward the structure to lock the parts in position.

5. A means for attaching a fence fabric to posts, consisting of a casing having an L-shaped recess formed therein with the base of the L innermost, a fastener member consisting of a main shank, an inner transversely-projecting end adapted to enter the toe of the L-shaped recess, and an outer fabric-receiving end and a filler member adapted to fill a portion of the L-shaped recess after the inner end of the fastener member has been projected into the toe of the L-shaped recess, the ar-

rangement being such that the outer fabric-receiving end of the fastener member may be doubled upon the shank toward the structure to lock the parts in position.

6. A means for attaching fence fabric to posts, consisting of a pair of mating members adapted to lie within an opening formed in the post, one of said members having an exterior form to fit within an opening in the post to prevent normal withdrawal thereof and having formed in its inner face a fastener-receiving recess the inner end of which is of greater dimension than the outer open end, and the mating member of which casing is normally transversely withdrawable from the post, a fabric-fastening consisting of a main shank, an inner transversely-projecting end adapted to be projected into the larger end of the fastener-receiving recess of the casing member by transverse movement of the fastener member, and an outer fabric-receiving end adapted to be doubled back upon the shank, and a filler member adapted to fill a portion of the fastener-receiving recess after the transverse movement of the fastener member within its receiving-recess, the arrangement being such that the outer end of the fastener member may be doubled upon the main shank toward the structure to thus embrace a portion of the fence fabric and to lock the parts in position.

7. A means for attaching fence fabric to posts, consisting of a pair of casing members having adjacent mating faces, one of said members having that face opposite its mating face so formed as to engage corresponding portions of a post as to prevent removal of said member without initial movement of the member transversely with respect to its mating face, and the other of said casing members having an exterior permitting withdrawal from the post, the said casing members being so formed as to produce a fastener-receiving recess between the mating faces thereof which recess has an inner end of greater dimension than its outer open end; a fastener member having an inner end with a transverse projec-

tion adapted to be projected into the inner end of the receiving-recess by transverse movement of the fastener member, and an outer end adapted to fill a portion of the receiving-recess after the inner projecting end of the fastener member has been projected by transverse movement of the fastener member into the receiving-recess of the casing members.

8. A means for attaching fence fabric to posts, consisting of a pair of casing members having adjacent mating faces, one of said members having that face opposite its mating face so formed as to engage corresponding portions of a post as to prevent removal of said member without initial movement of the member transversely with respect to its mating face, and the other of said casing members having an exterior permitting withdrawal from the post, the said casing members being so formed as to produce a fastener-receiving recess between the mating faces thereof which recess has an inner end of greater dimension than its outer open end; a fastener member having an inner end with a transverse projection adapted to be projected into the inner end of the receiving-recess by transverse movement of the fastener member, and an outer end adapted to receive a fence fabric, and a filler member adapted to fill a portion of the receiving-recess after the inner projecting end of the fastener member has been projected by transverse movement of the fastener member into the receiving-recess of the casing members, the outer fabric-receiving end of said fastener member being adapted to be doubled back upon the main shank thereof toward the structure to embrace a fence fabric and to lock the parts in position.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 10th day of June, A. D. 1905.

WILLIE L. NORTHAM. [L. S.]

Witnesses:

ARTHUR M. HOOD,
JAMES A. WALSH.