

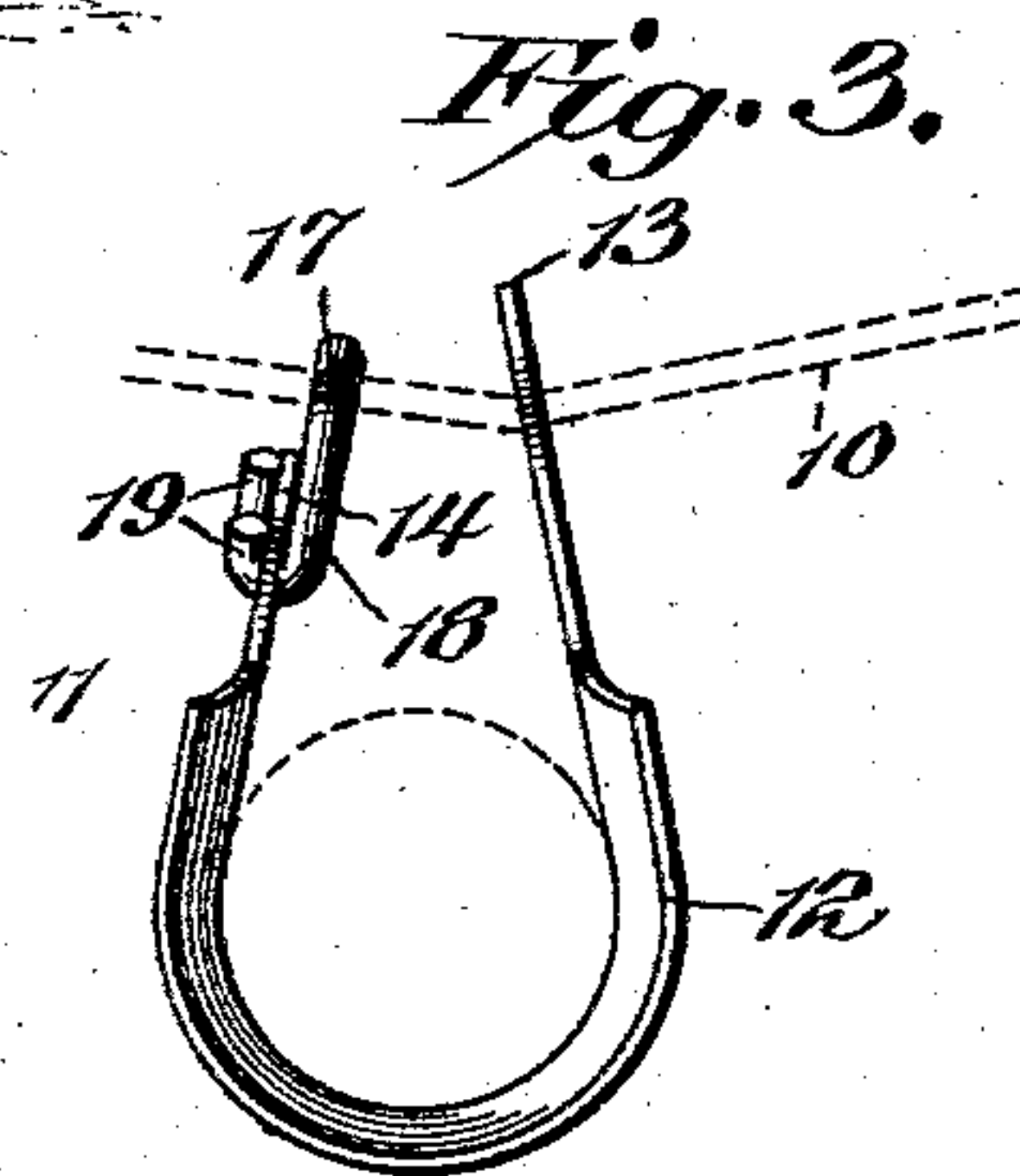
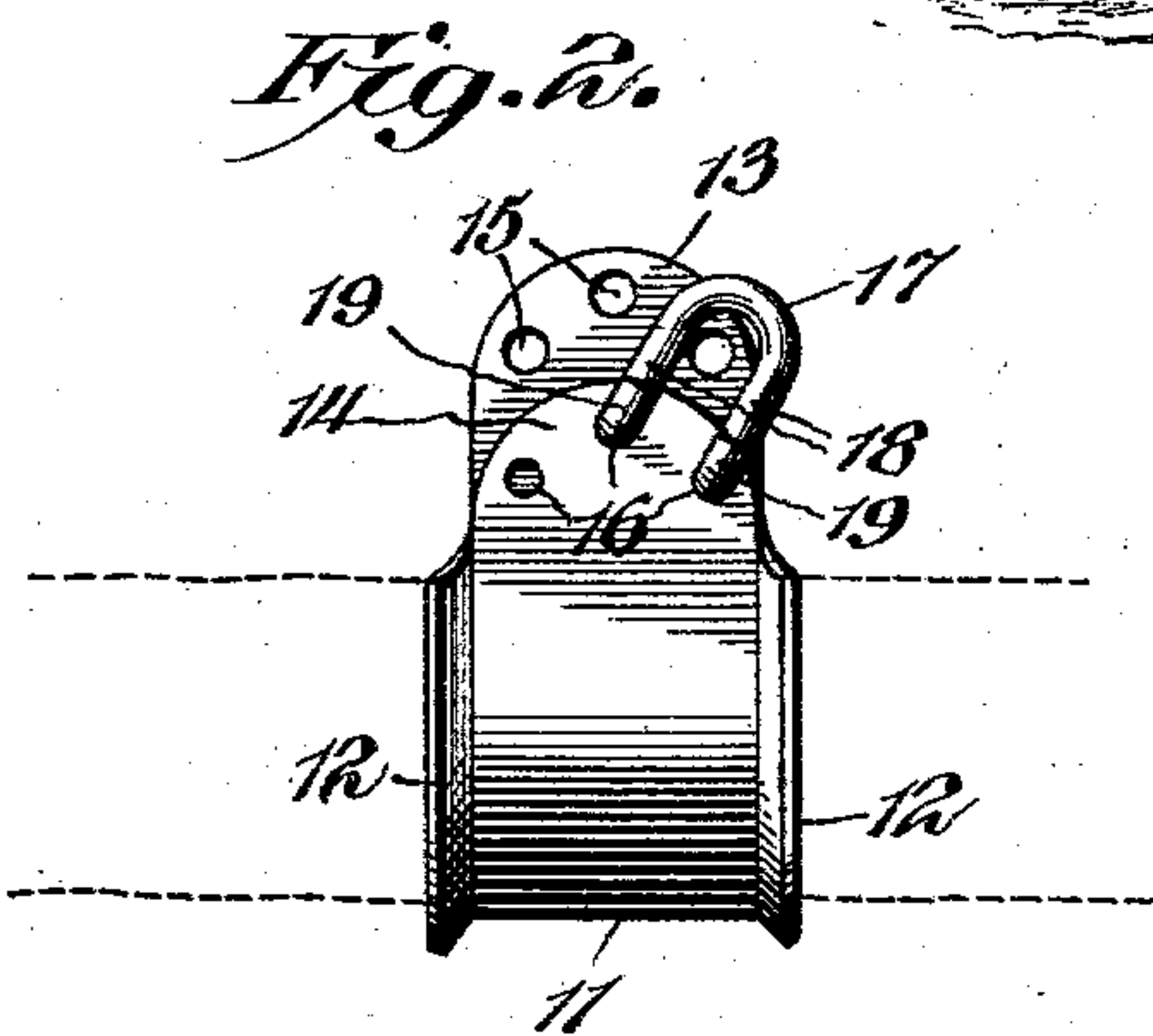
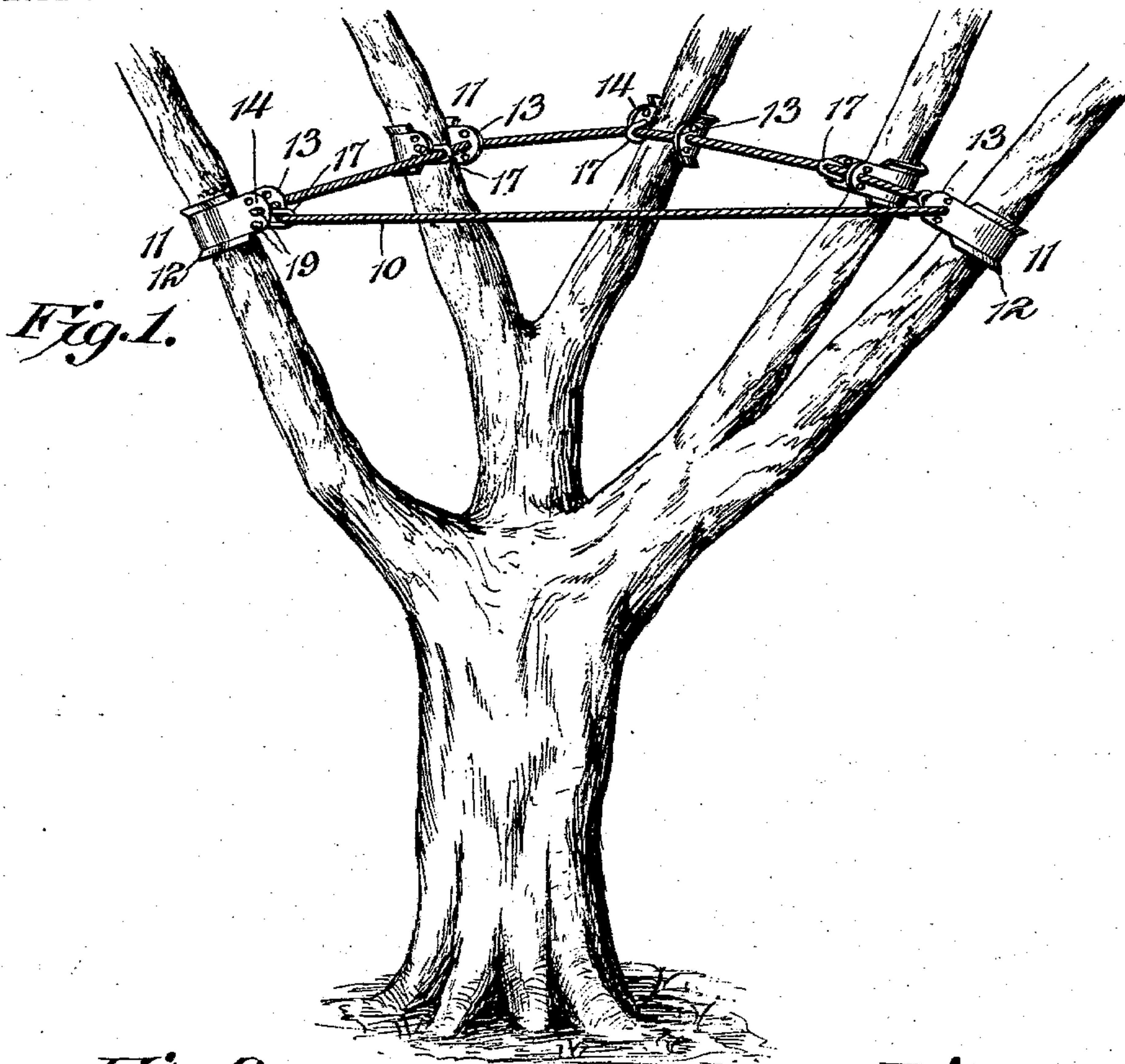
No. 740,741.

PATENTED OCT. 6, 1903.

G. E. BROWN.
LIMB SUPPORT.

APPLICATION FILED MAR. 31, 1903.

NO MODEL.



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UNITED STATES PATENT OFFICE.

GEORGE EDMAN BROWN, OF SELMA, CALIFORNIA, ASSIGNOR OF ONE-HALF
TO J. H. WRIGHT, OF SELMA, CALIFORNIA.

LIMB-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 740,741, dated October 6, 1903.

Application filed March 31, 1903. Serial No. 150,426. (No model.)

To all whom it may concern:

Be it known that I, GEORGE EDMAN BROWN, a citizen of the United States, residing at Selma, in the county of Fresno and State of California, have invented a new and useful Limb-Support, of which the following is a specification.

This invention relates to means for supporting the limbs of trees; and the object is to provide a novel connection between the various limbs, so that each will contribute to the support of the other, said means being freely adjustable, so as to permit ready application to different trees.

It is also the object to provide limb-engaging devices which can be easily applied to the limbs, are freely adjustable toward and from each other, and will permit the growth of the limbs without interference and without injuring them.

The preferred form of construction is illustrated in the accompanying drawings and is described in the following specification. An inspection of the claims will show that the invention is not limited to the specific structure set forth.

In the drawings, Figure 1 is a perspective view of the lower portion of a tree, showing the improved support applied thereto. Fig. 2 is a side elevation of one of the limb-engaging stirrups. Fig. 3 is an end elevation of the same.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment herewith illustrated a tie-cable 10 is employed, which is arranged to be passed around contiguous to the various limbs to be supported. This cable may be of any suitable sort, and the term is to be interpreted broadly enough to include cords, ropes, wire, or any flexible connection of a similar nature. Loosely strung upon this cable are limb-engaging stirrups 11. These stirrups are preferably constructed of sheet metal and have outturned flanges 12 at their side edges, one end, 13, of each being made longer than the other end, which is designated 14. Openings 15 and 16 are formed in said ends, and the cable 10 is passed through any one of the openings 15 in the longer end. A connect-

ing device 17 is employed for detachably securing the shorter end of the stirrup to the cable. This connecting device comprises a body portion having spaced legs 18, that embrace the cable, the free ends of the legs being provided with terminal hooks 19, adapted to engage in certain of the openings 16 in the shorter end of the stirrup.

In applying the supporting means to a tree the shorter ends of the stirrups are first unhooked, whereupon said stirrups can be engaged about the limbs and may be freely adjusted upon the cable, so as to be brought into proper positions for the purpose. The connecting devices are then placed upon the cables and hooked into the shorter ends of the stirrups, whereupon the limbs are all connected and mutually contribute to one another's support. By having a plurality of openings in each end of each stirrup said stirrups may be arranged in different angular relations to the tie-cable, and thus may be accommodated to the various inclinations of the limbs. As a result there is not as much danger of the stirrups cutting into and injuring the wood.

With this structure all the limbs of a tree may be properly braced and the stirrups can be freely adjusted toward and from each other, so that they can be properly engaged about the limbs. Furthermore, the connections between the ends and the cable permit said ends to spread apart as the limbs grow, and thus will not bind or otherwise injure the same.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In a limb-support, the combination with a tie-cable, of a limb-engaging stirrup, and a connecting device detachably engaging the

stirrup and the cable, said device being removable from the cable after its disengagement from the stirrup.

2. In a limb-support, the combination with
5 a tie-cable, of a limb-engaging stirrup, and a connecting device detachably engaging the cable and having spaced legs that straddle the same, said legs being provided with terminal hooks detachably engaging the stirrup.
- 10 3. In a limb-support, the combination with a tie-cable, of a limb-engaging stirrup, and a connecting device comprising a substantially U-shaped body portion having terminal hooks, said device detachably engaging the cable and the stirrup.
- 15 4. In a limb-support, the combination with a tie-cable, of a stirrup having one end secured to the cable, and means for detachably securing the other end to the cable.
- 20 5. In a limb-support, the combination with a tie-cable, of a stirrup having one end movably mounted on the cable, and means for detachably securing the other end to the cable.
- 25 6. In a limb-support, the combination with a tie-cable, of a stirrup having an opening in one end, through which the cable passes, and a hook for detachably securing the other end to the cable.
- 30 7. In a limb-support, the combination with a tie-cable, of a stirrup having an opening in one end through which the cable passes, and a hook having a detachable engagement both with the cable and the other end of the stirrup.

8. In a limb-support, the combination with 35 a tie-cable, of a limb-engaging stirrup, and means connecting the cable and the stirrup, said means being arranged to engage the stirrup at different points to hold it in different relations to the cable. 40

9. In a limb-support, the combination with a tie-cable, of a limb-engaging stirrup having a plurality of openings in one end, and a hook connecting the cable and stirrup and arranged to be engaged in different openings. 45

10. In a limb-support, the combination with a limb-engaging stirrup having one end longer than the other, of a tie-cable engaging the longer end, and a detachable connection between the shorter end and the cable. 50

11. In a limb-support, the combination with a limb-engaging stirrup having one end longer than the other, said longer end being provided with an opening, a tie-cable passing through the opening, and a hook detachably 55 connecting the shorter end of the stirrup and the cable.

12. In a limb-supporting means, the combination with a tie-cable, of a plurality of limb-engaging stirrups loosely strung upon the cable and movable toward and from each other. 60

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE EDMAN BROWN.

Witnesses:

WALTER L. CHAPPELL,
E. P. TODD.