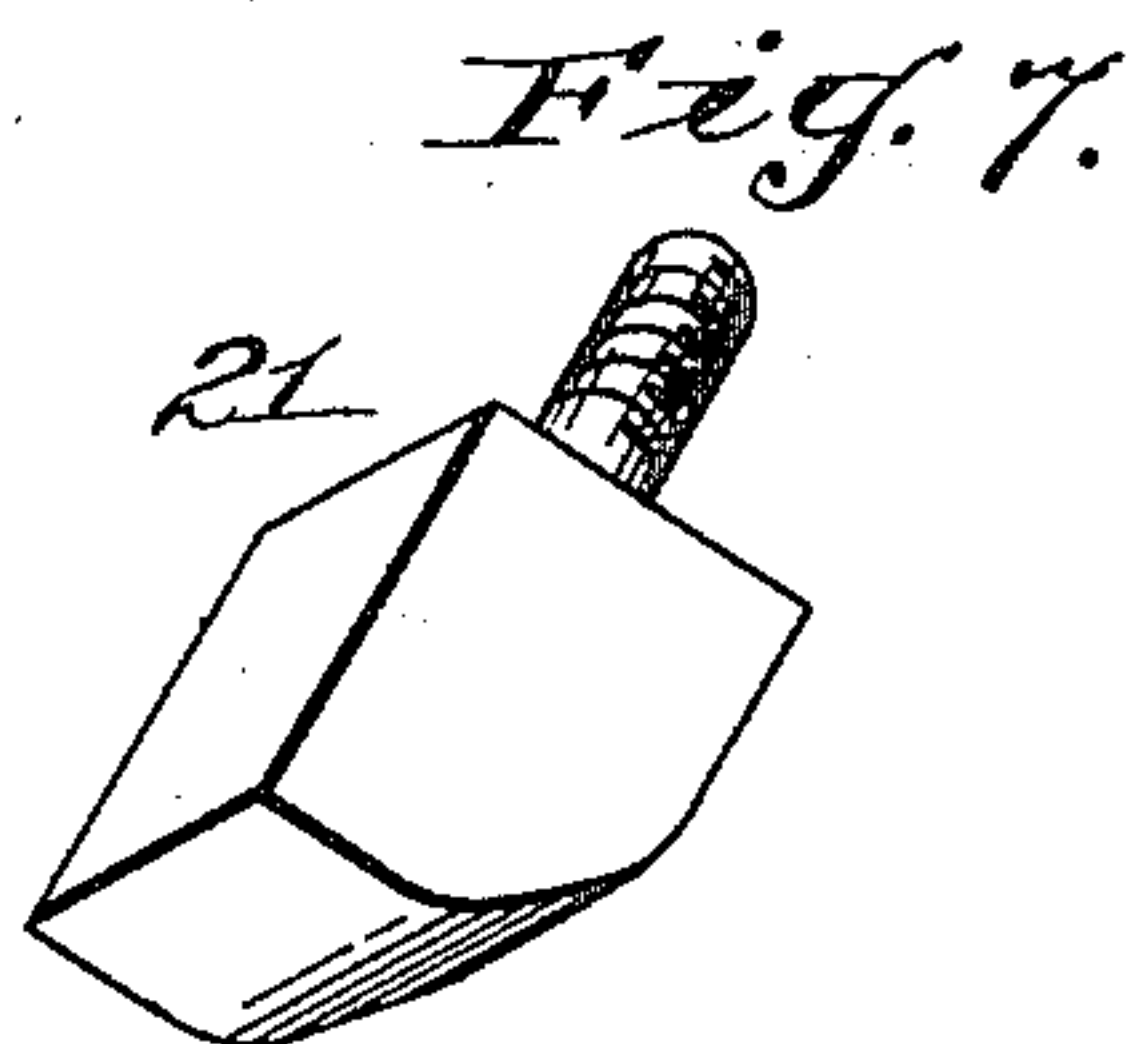
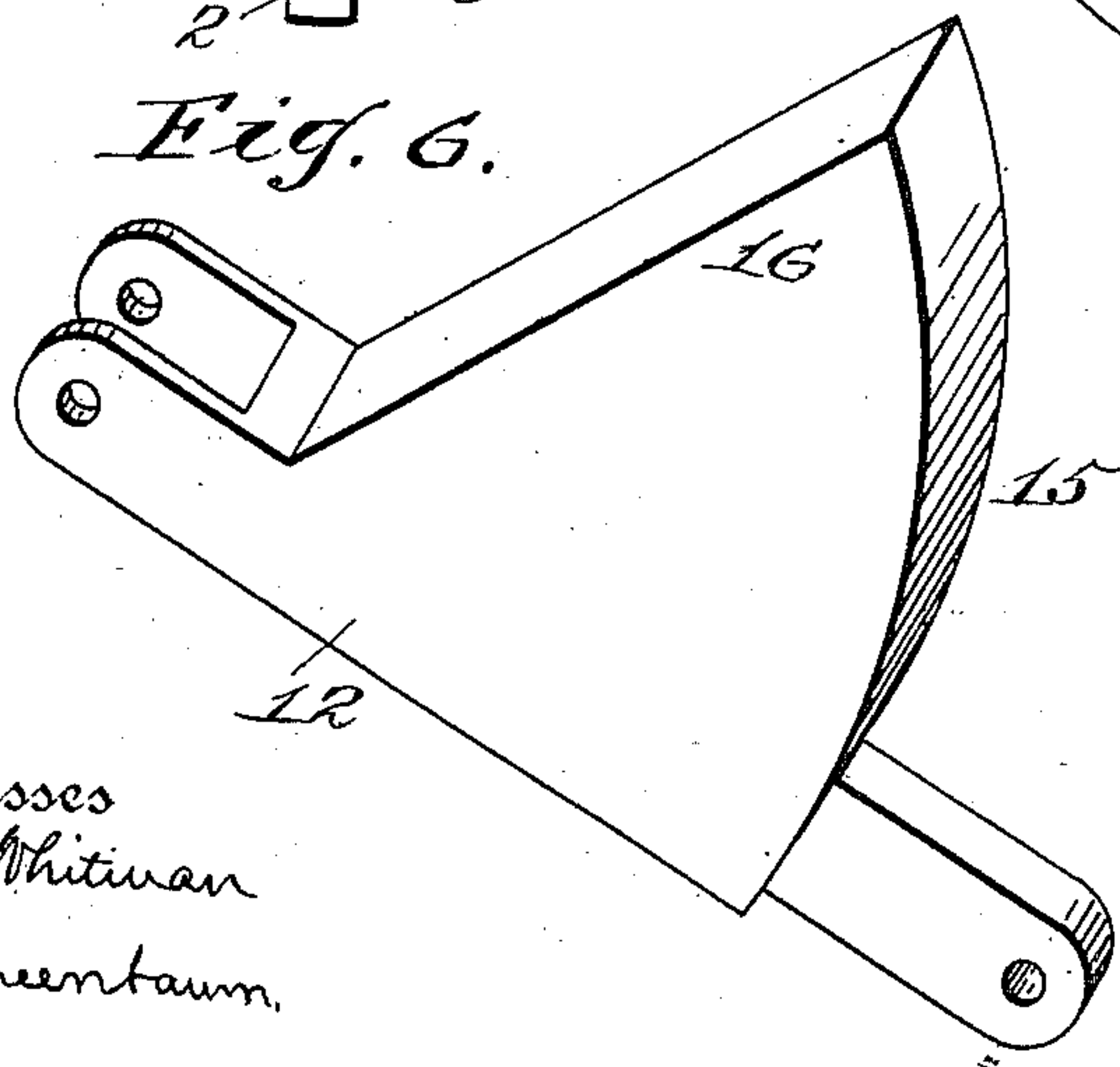
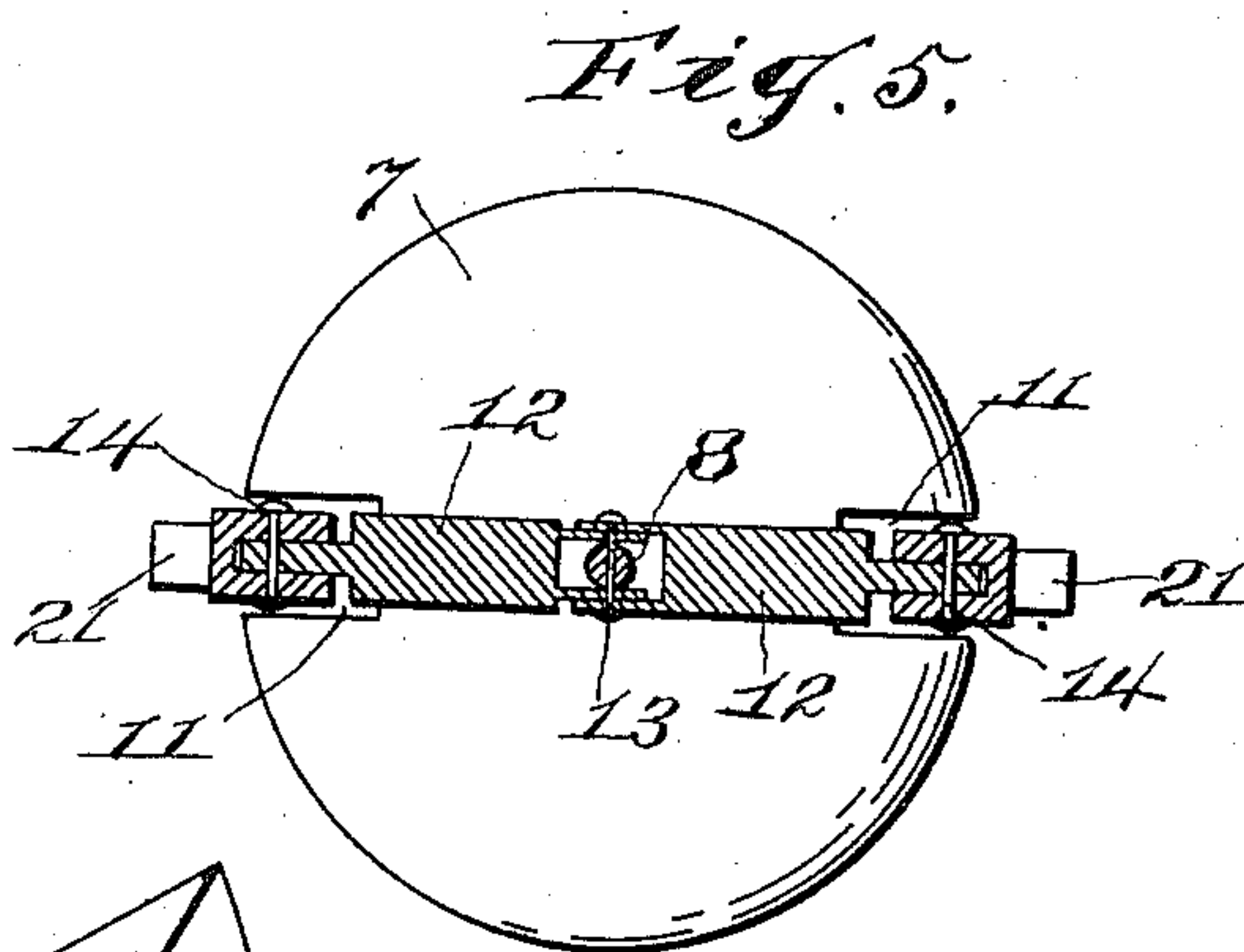
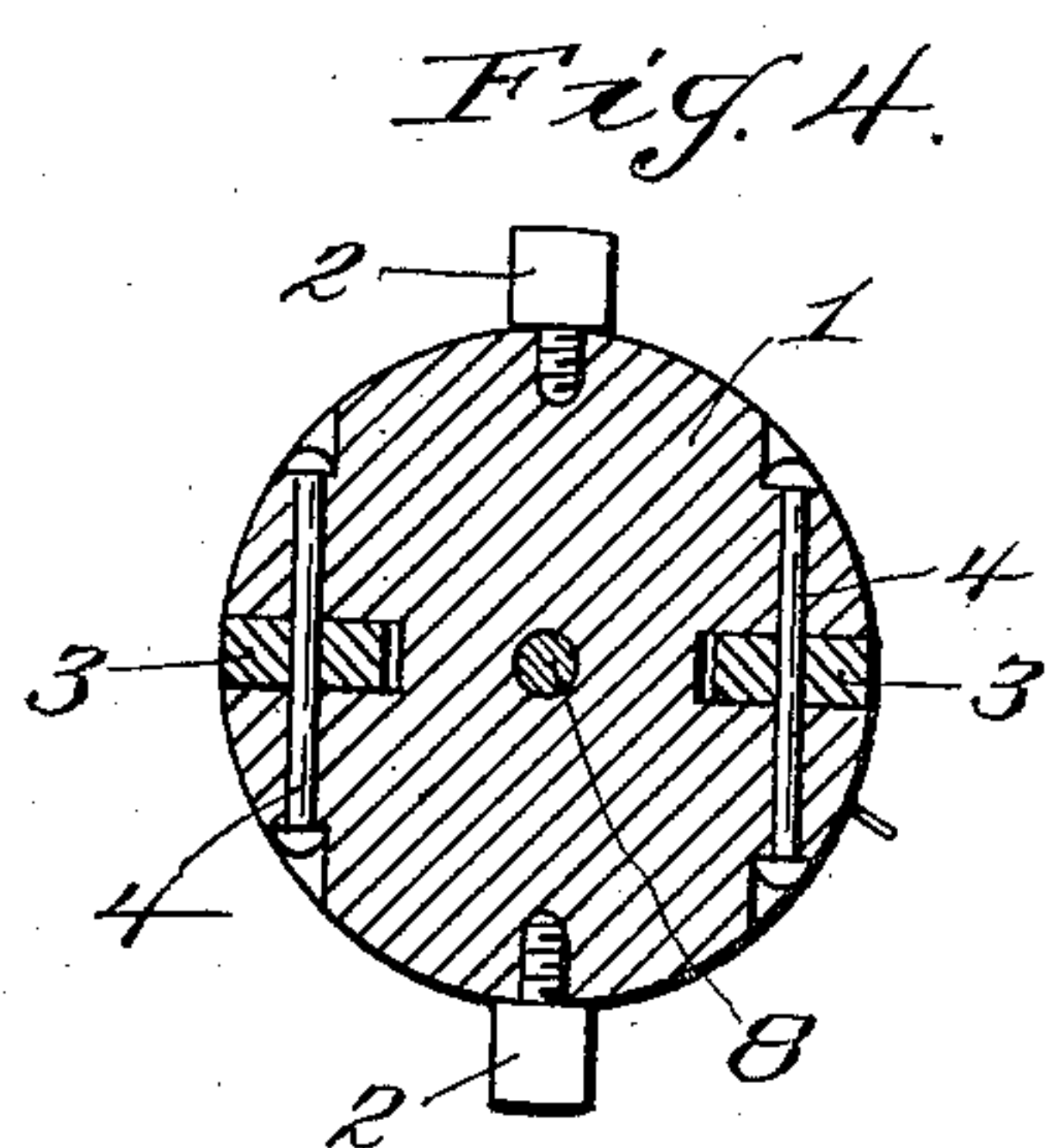
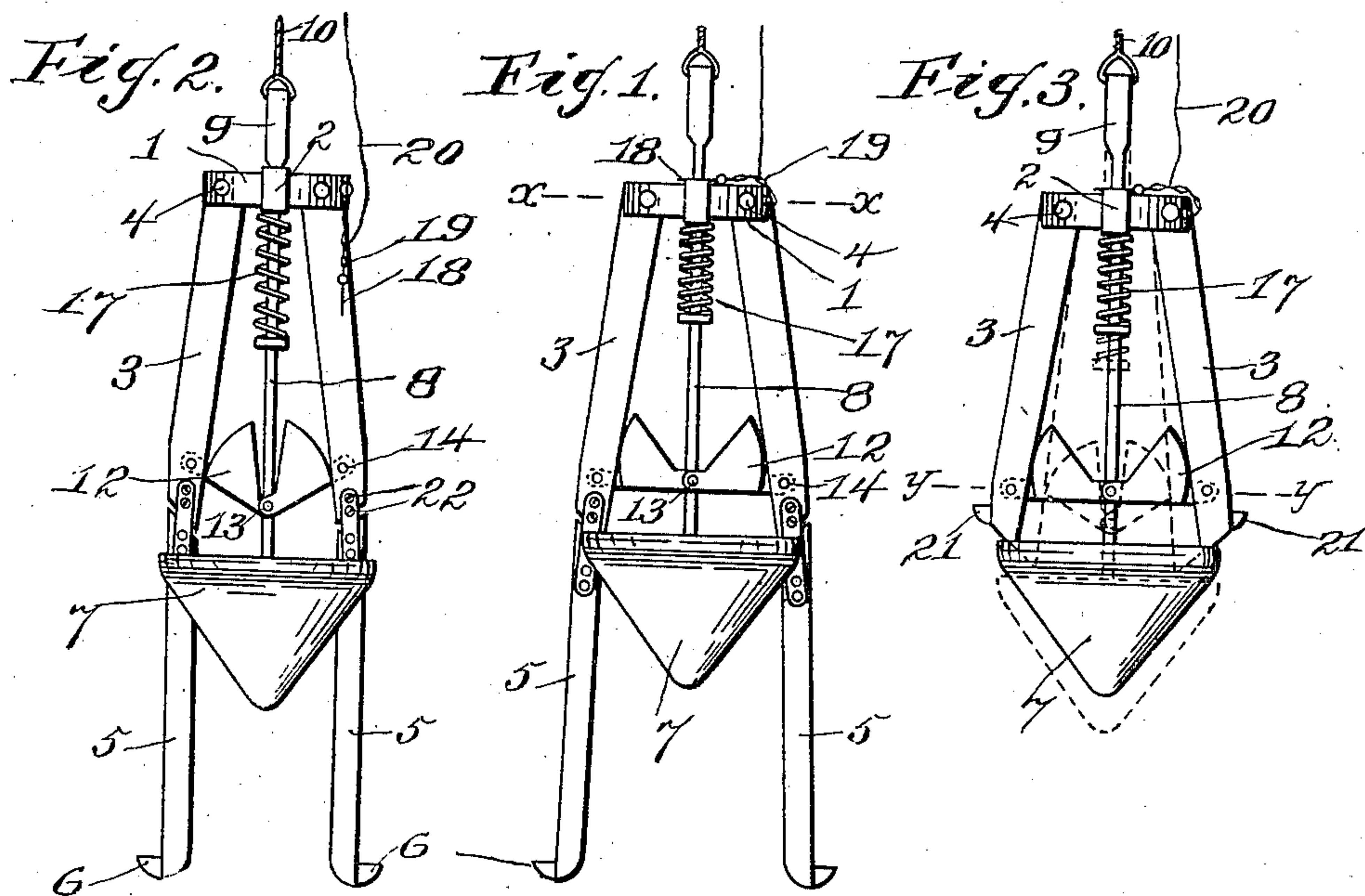


J. COMMETTI.
WELL CASING PLACER.
APPLICATION FILED JUNE 30, 1910

995,662.

Patented June 20, 1911.



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UNITED STATES PATENT OFFICE.

JOSEPH COMMETTI, OF NEAR GARLAND, ALABAMA.

WELL-CASING PLACER.

995,662.

Specification of Letters Patent. Patented June 20, 1911.

Application filed June 30, 1910. Serial No. 569,711.

To all whom it may concern:

Be it known that I, JOSEPH COMMETTI, citizen of the United States, residing near Garland, in the county of Conecuh and State of Alabama, have invented certain new and useful Improvements in Well-Casing Placers, of which the following is a specification.

This invention relates to the class of devices employed for facing casing or lining in wells, and pertains especially to a device commonly called well casing spear.

The object of the invention is to provide a device of novel and peculiar construction adaptable to wells of various sizes and shapes for placing tiling or other lining in wells and connecting or joining the lining, casing or other lining members or parts together in connected position during such placing thereof.

A further object of the invention is to provide such novel and peculiar construction in a device for placing tiling in wells whereby the tiling may be manipulated into desired position within a well and fixed there in a most expeditious manner.

A still further object of the invention is to provide in one and the same device double means for carrying tiling into wells, and to provide special connections between such double means as to permit separation thereof after the initiative or first piece of section of tiling has been placed, and so as to leave one part of such means in operative condition for placing the remaining tile sections.

Various other objects, advantages and improved results are attainable in the practical application of the invention.

In the accompanying drawings forming part of this application: Figure 1 is an elevation of the device in position for lowering and placing the first tile section. Fig. 2 is a similar view showing the position of the parts after placing the first tile section and the device ready to be withdrawn from the well. Fig. 3 is an elevation of the device in condition for tile placing after the first tile section has been placed, the dotted lines showing the movable position of the parts. Fig. 4 is an enlarged section on the line $x-x$, Fig. 1. Fig. 5 is an enlarged section on the line $y-y$, Fig. 3. Fig. 6 is a detail perspective view of one of the spreading levers. Fig. 7 is a perspective view of one of the arm lugs.

The same reference numerals denote the

same parts throughout the several views of the drawings.

The disk head 1, has projections 2, for centralizing it in a tile section, and one end of each of a pair of arms 3 is pivoted at 4, in the head. A leg 5 is detachably connected to the other end of each arm 3, and the free ends of the legs are pointed or beveled so as to enter the earth or bottom of a well in placing the initiative or first tile section thereinto. Said section being supported and carried into position by a pair of prongs 6, one of which projects from and at right angles to the free end of each leg 5. A cone-shaped spear or follower 7, having its apex pointing downwardly, is hung from the head 1, by means of a rod or shaft 8, having an enlarged end 9, to which is attached a rope or cable 10, for raising and lowering the device. The periphery of the follower has a pair of slots 11 diametrically opposite each other which fit the legs 5, so that the latter and the follower may be worked freely within the first tile section, as will be hereinafter particularly described.

The means for operating the arms and the legs simultaneously with the movement of the shaft and its follower, comprises a pair of spreading levers 12, fulcrumed together and to the shaft 8, at 13, and pivoted, one to each of the arms 3, at 14. The outer ends of the levers have cam faces 15 which engage the arms, and each lever is provided with a V-shaped stop-lug or enlargement 16, projecting upwardly from the top of the levers for the purpose of engaging the arms when the levers are brought to horizontal position in spreading the arms and the legs, so as to limit or stop the levers at horizontal position, whereby the arms and legs are spread.

The shaft 8 extends from the follower through the head 1, and is provided with a spiral spring 17, working against the under side of the head. A key-pin 18 engages the shaft 8 and rests against the top of the head 1, for extending the levers and holding the arms in spread position. The pin or key 18 is attached to the head 1, by a chain 19 which has a hand cord 20, for pulling the key out of the shaft 8, so as to permit the spring 17 to expand and thereby drop the follower and retract the levers and the arms.

The lower end of each of the arms 3 is provided with a detachable lug 21. These

lugs are attached to the arms after the first section or piece of tiling has been placed in a well, and after the legs have been detached from the arms, and such lugs project from the arms sufficiently to support or carry the remaining tile sections into a well.

It is obvious that after the first or bottom tile section has been placed in a well, the legs are detached from the arms, by removing the screws or bolts 22, and the lugs 21 are secured to the arms, the device is in condition for placing the next piece of tiling on the said first section, and the remaining pieces or sections are placed upon one another in a well by the device in this condition; and that the follower precedes all the sections, except the first section, as they are carried into position by the device, so that the follower may enter the first section and all succeeding sections for centralizing them.

I do not limit myself to any particular size, shape or material in the manufacture of the device, nor in its application to any particular kind, shape or size of well, nor to any special shape, size or character of well casing or lining capable of being carried or placed by this device.

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

1. The combination, with a slidable shaft, of a cone shaped follower having a pair of peripheral slots and operated by the shaft,

a head through which the shaft works, a pair of arms pivoted to the head, a leg detachably secured to each arm, said legs working in the slots and having end projections for supporting a well casing section, a pair of stop levers connecting the arms with the shaft above the cone for spreading the arms and the legs, and a spiral spring on the shaft and engaging the said head.

2. In a well casing placer, the combination, with a head piece, and a pair of arms each having one end pivoted to said head piece and the other end provided with a removable casing support, and a pair of legs each having one end detachably secured to one of said other arm ends for supporting a well casing section, of means for operating the arms and the legs comprising a spring controlled shaft, and a pair of levers fulcrumed to the shaft and pivoted to the arms.

3. The combination, with a head piece, and a pair of arms pivoted to the head piece for placing a well casing, of means for expanding and contracting the arms comprising a spring controlled shaft, and a pair of stop levers fulcrumed to the shaft and pivoted to the arms.

In witness whereof I hereunto set my hand in the presence of two witnesses.

JOSEPH COMMETTI.

Witnesses:

W. M. McKENZIE,
N. U. McKENZIE.