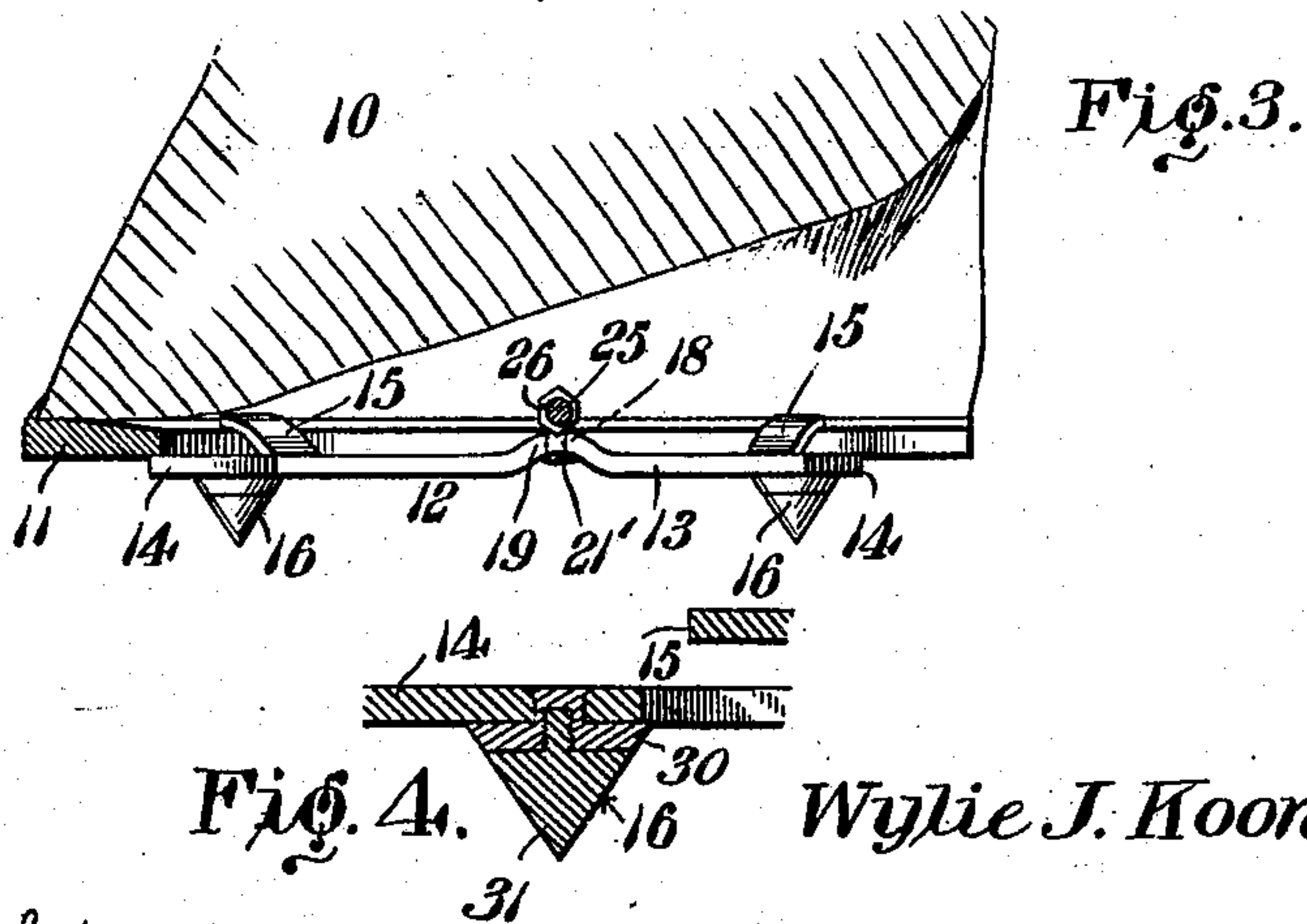
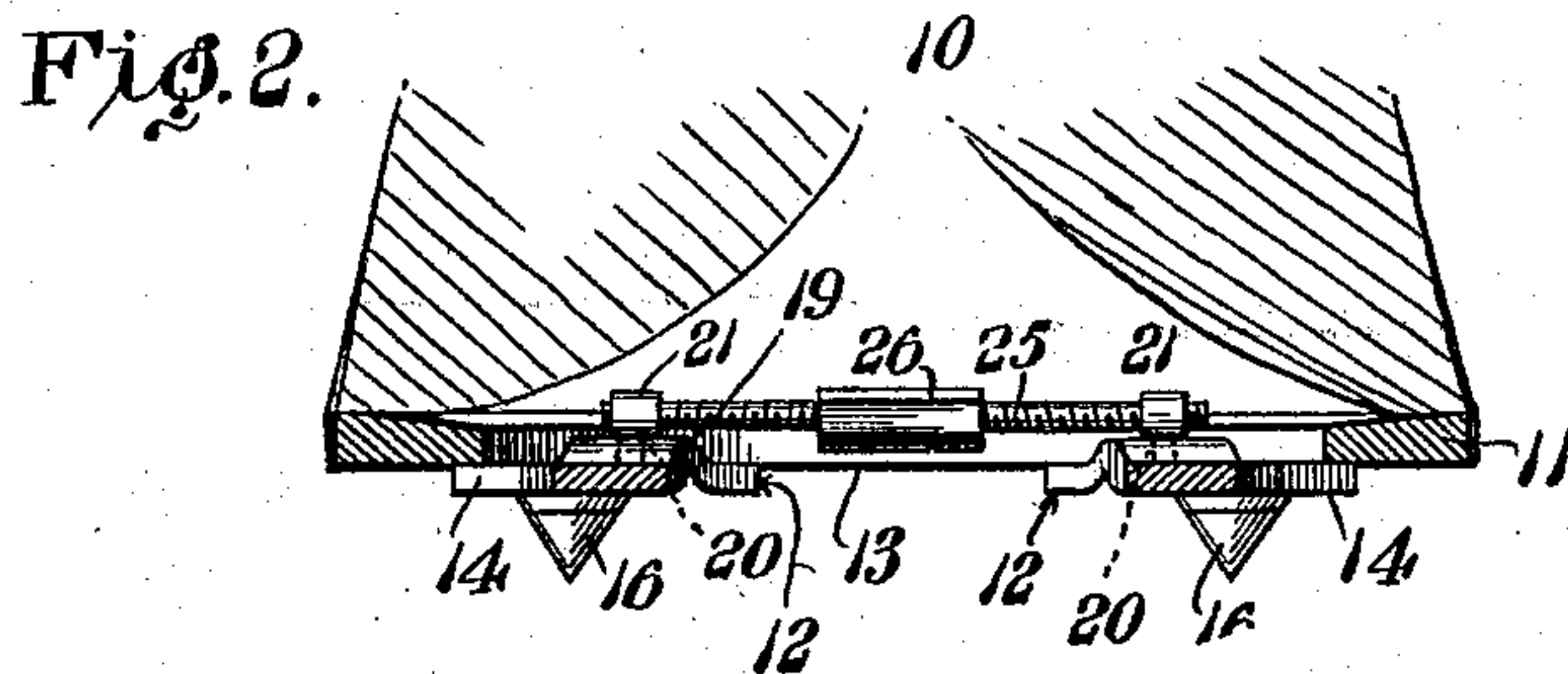
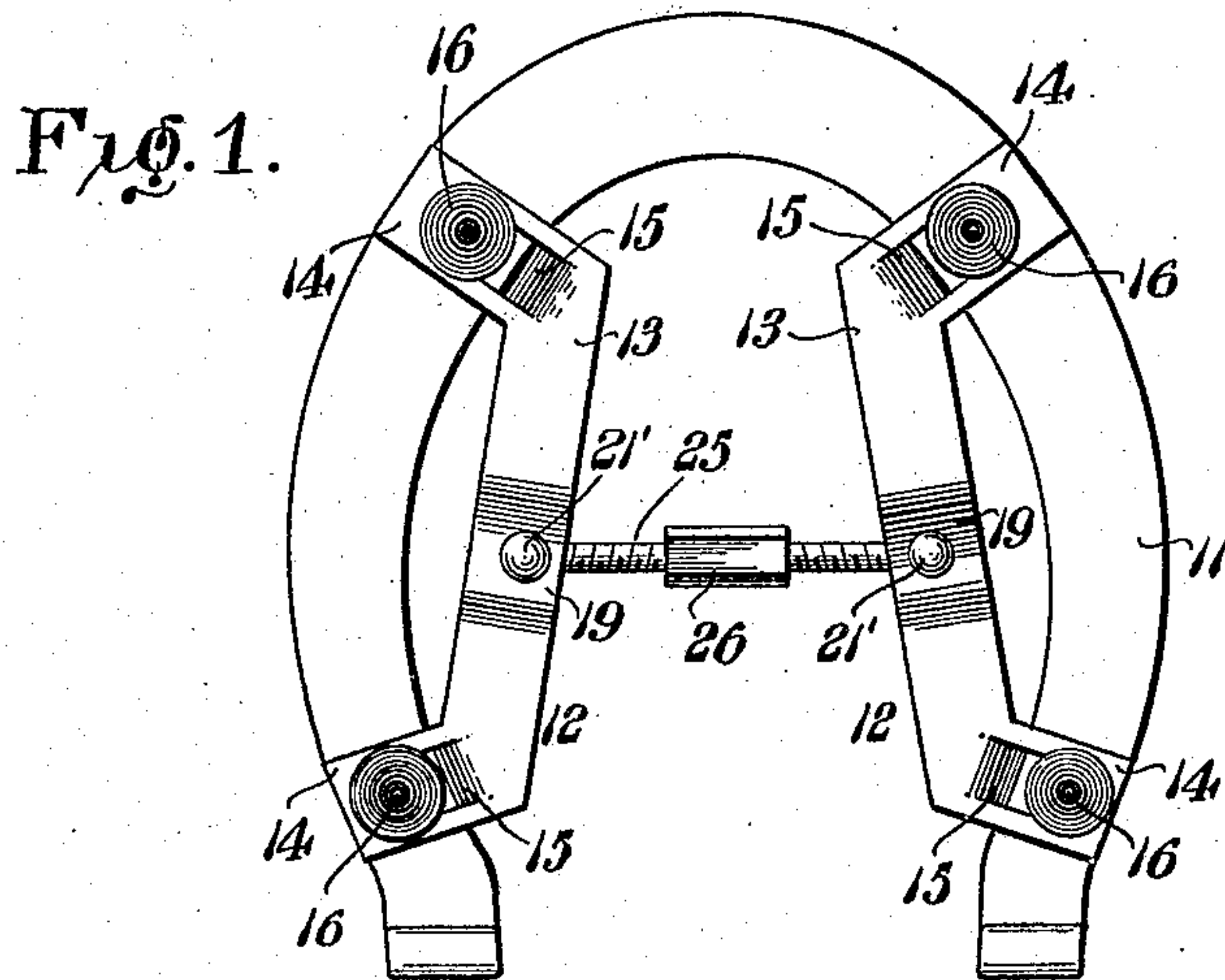


W. J. KOONTZ.
DETACHABLE CALK.
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915,970.

Patented Mar. 23, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

WYLIE J. KOONTZ, OF BLOOMINGTON, INDIANA.

DETACHABLE CALK.

No. 915,970.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed April 16, 1908. Serial No. 427,432.

To all whom it may concern:

Be it known that I, WYLIE J. KOONTZ, a citizen of the United States, residing at Bloomington, in the county of Monroe and State of Indiana, have invented certain new and useful Improvements in Detachable Calks, of which the following is a specification.

This invention relates to horse shoes, and more particularly to detachable calks or ice creepers therefor, and has for its object to provide a device of this class which is adapted to be engaged with a horse shoe of the ordinary type now in use.

Another object is to provide such a device which may be readily engaged or detached from a horse shoe already secured to a horse's hoof.

Another object of this invention is to provide such a device adapted to be formed largely from sheet metal.

Another object is to provide such an article which may be manufactured at low cost.

A further object is to provide such a device which will be extremely light in weight yet of a maximum efficiency.

Another object is to provide such a device the operative parts of which will occupy but little room.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claim and that any suitable materials may be used without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a bottom view of the attachment engaged upon a shoe, Fig. 2 is a cross sectional view of a hoof having a shoe thereon and the present device engaged therewith, Fig. 3 is a sectional view at right angles with Fig. 2, showing the manner of engaging the operative means with the calk plates. Fig. 4 is a detailed sectional view of one of the calks.

Referring to the drawings, there is shown a hoof 10 having a shoe 11 engaged thereon with which the present invention is engaged, as shown. The creeper comprises two engaging members or calk plates 12 comprising a central portion 13 carrying at

opposite ends diagonally and outwardly extending engaging arm 14. The engaging arms 14 carry shoe engaging tongues 15 stamped therefrom and offset upwardly, being spaced inwardly from the ends of the arms 14. Outwardly of the tongues 15 and upon the opposite faces of the arms 14, there are secured calk members 16, of a suitable type. The central portions 13 are provided with upwardly recessed portions 19, having perforations 18 formed centrally thereof. Screw receiving members 21 having threaded openings therethrough, and having rivet portions provided with heads 21' are engaged in the openings 18, as shown. A right and left threaded screw member 25 having a polygonal nut portion 26 at its center, is engaged in the threaded openings of said screw receiving members as shown.

It will be seen that the stamped tongues 15 are adapted to engage against the inner edges of a horse shoe, and that upon operation of the member 25 the tongues 15 will be brought into coengagement with a shoe, and serve to hold the calk securely upon the horse's foot. The central portion 13 is arched laterally and inwardly, and broadened at its middle to strengthen it against the operation of the member 25.

The calk members 16 comprise circular base pieces 30 having central threaded openings therein, and secured to the portion 14 in a suitable manner, and points 31 having threaded stems engaged detachably in the base portion.

What is claimed is:—

A horse shoe creeper comprising oppositely disposed plates stamped from sheet metal, said plates having a central portion, and integral shoe engaging portions at opposite sides thereof, said shoe engaging portions having outwardly extending offset tongues stamped therefrom, road engaging members carried by said shoe engaging portions oppositely of said tongues, and means coengaged with said plates and adapted to force the plates outwardly for coengagement of the members with a horse shoe.

In testimony whereof I affix my signature, in presence of two witnesses.

WYLIE J. KOONTZ.

Witnesses:

ALFRED H. PERING,
HENRY A. SEWARD.