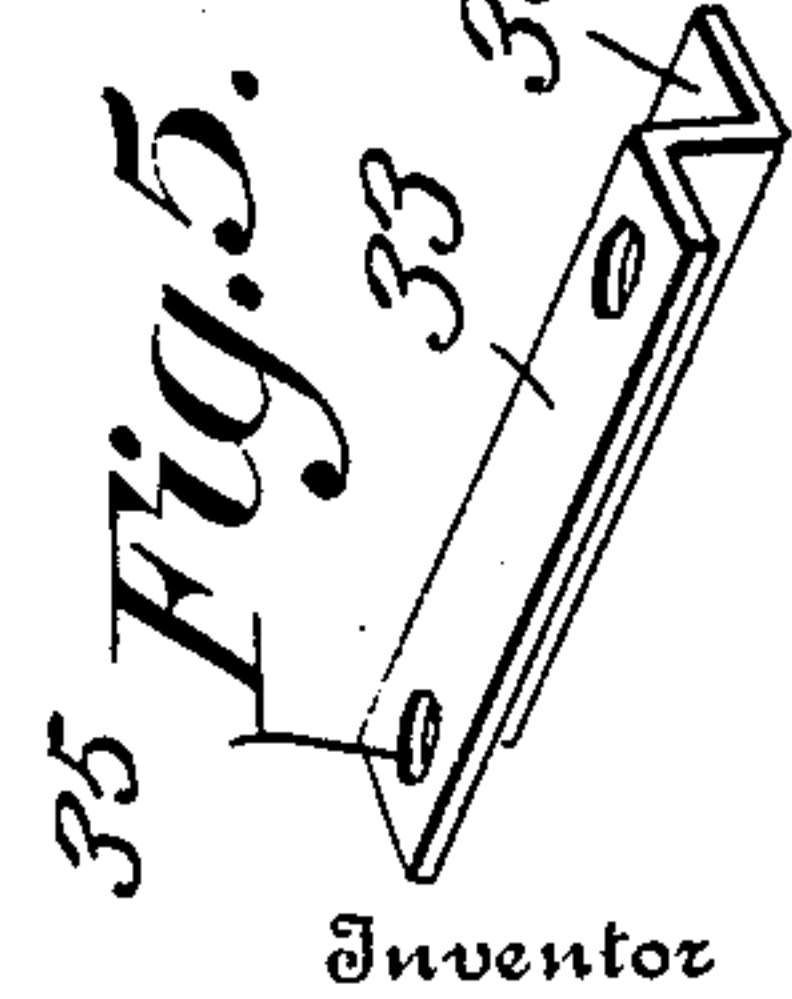
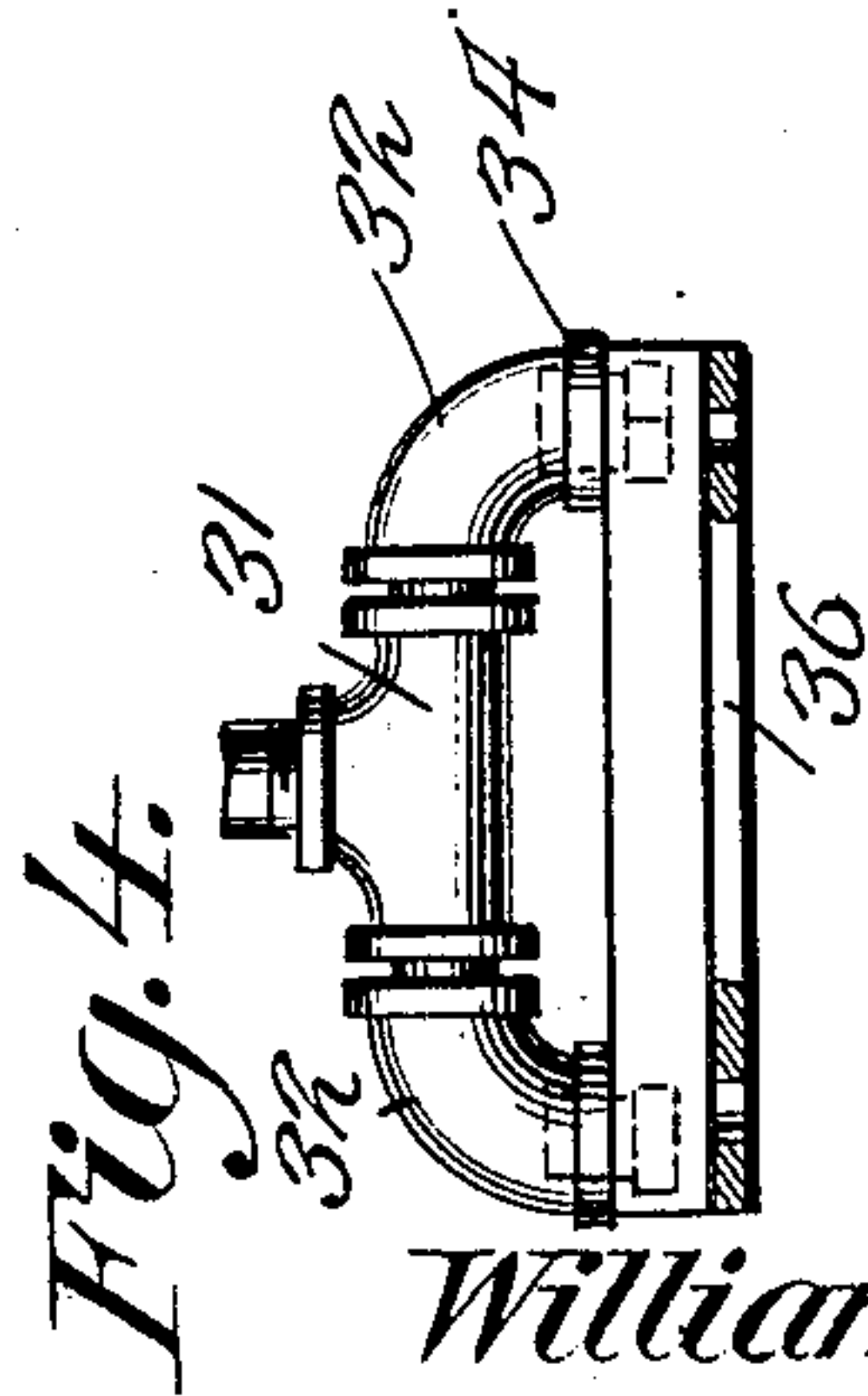
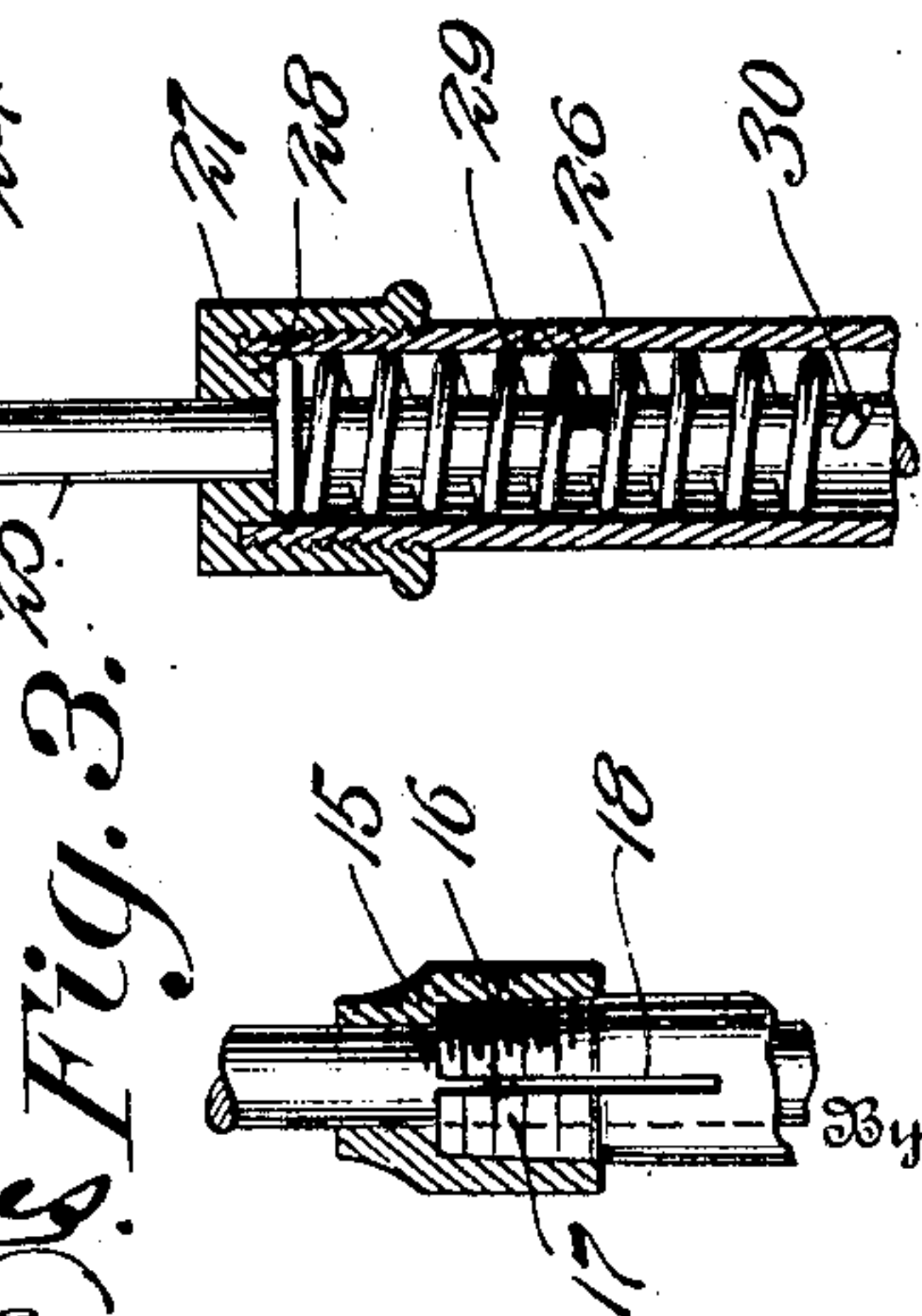
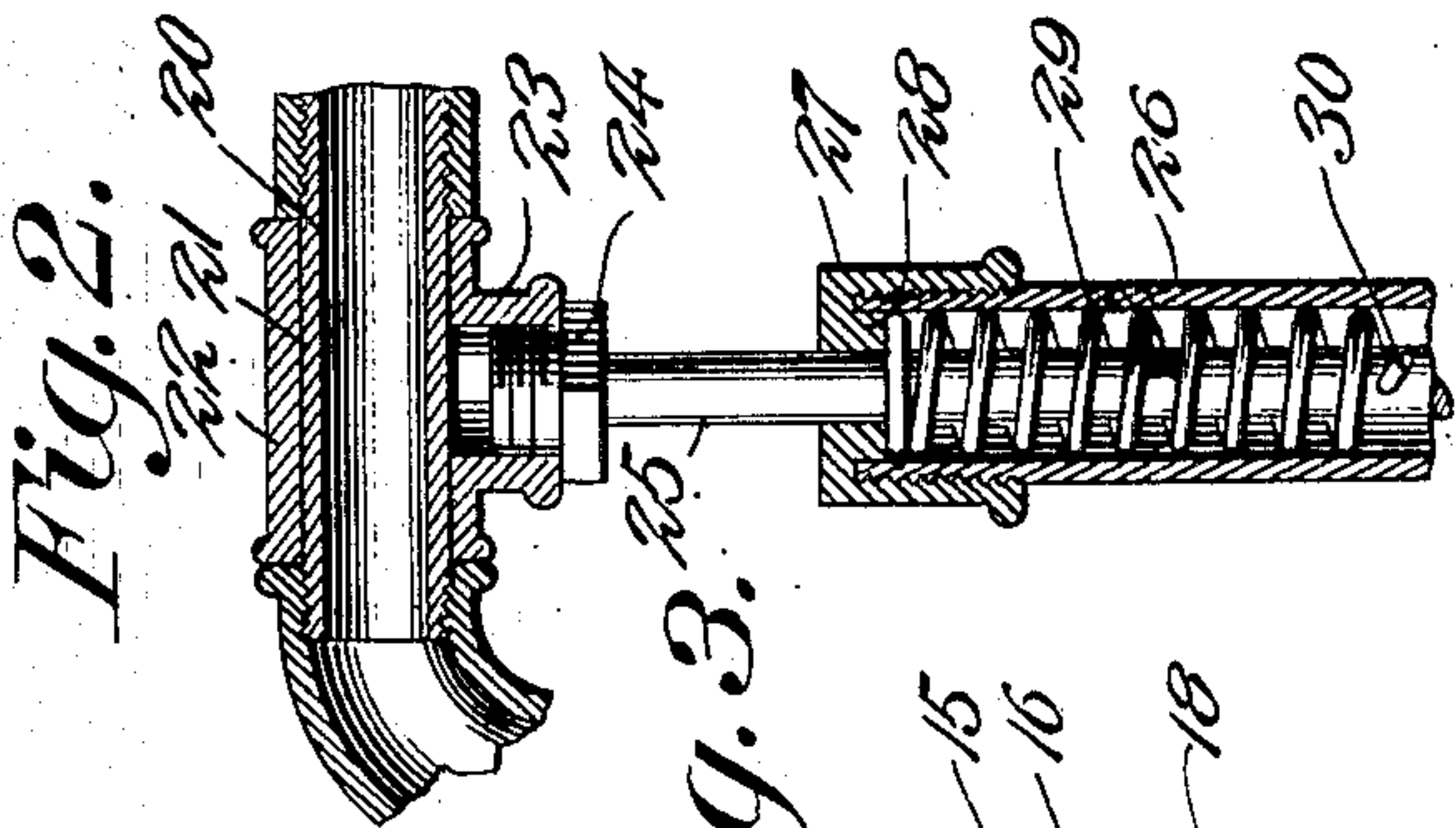
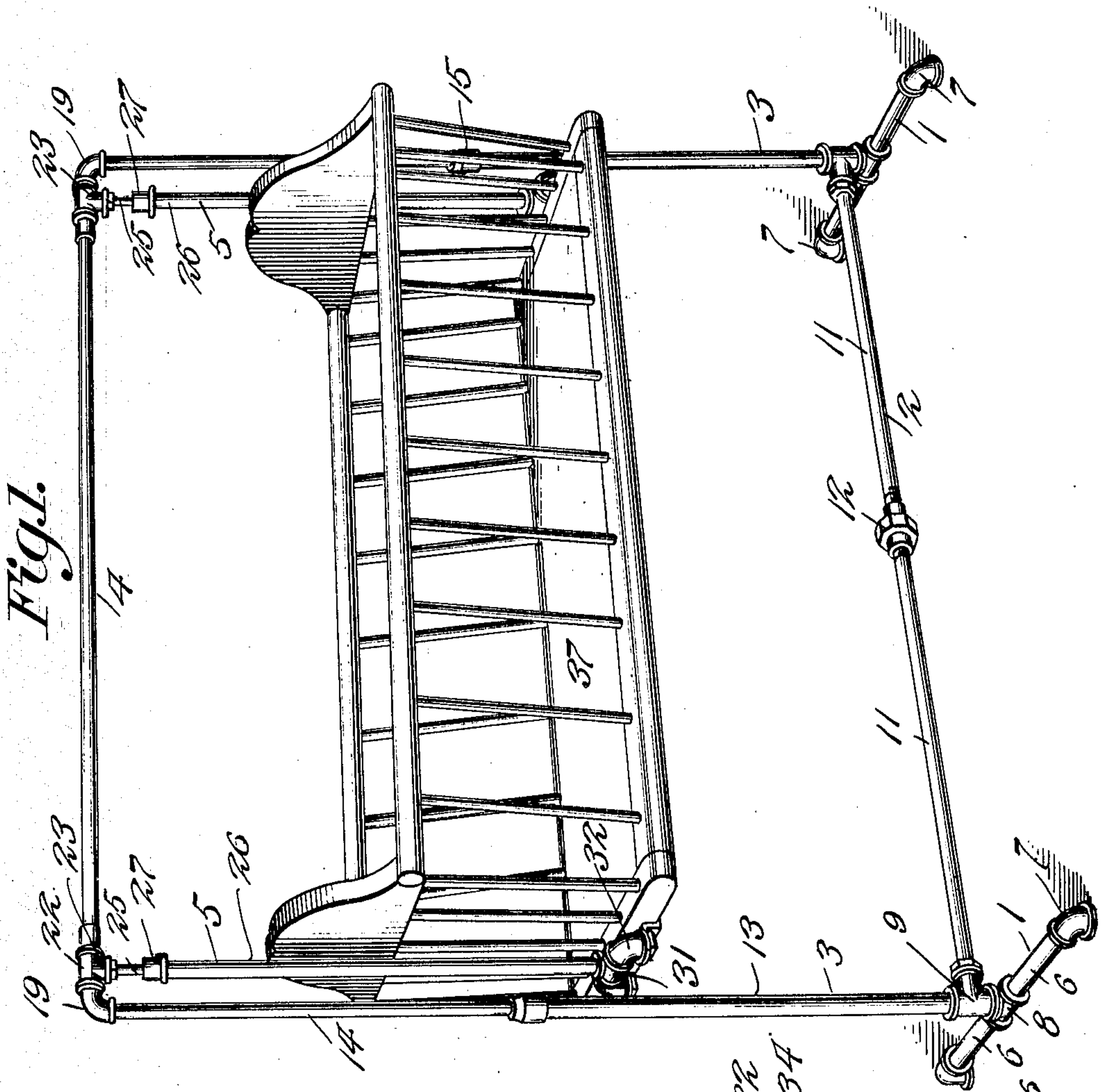


No. 871,692.

PATENTED NOV. 19, 1907.

W. GRAY.
HAMMOCK.

APPLICATION FILED MAY 6, 1907.



Witnesses

Paul E. Barnes.
Arthur L. Evans

William Gray.

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM GRAY, OF SPRINGFIELD, MISSOURI.

HAMMOCK.

No. 871,692.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed May 6, 1907. Serial No. 372,276.

To all whom it may concern:

Be it known that I, WILLIAM GRAY, a citizen of the United States, residing at Springfield, in the county of Greene and State of Missouri, have invented new and useful Improvements in Hammocks, of which the following is a specification.

The invention relates to an improvement in supporters for use with hammocks, cradles, chairs, or the like, and comprehends specifically a construction permitting the convenient and ready assembling or disconnection when desired.

The main object of the present invention is the production of a supporter constructed for the most part of ordinary pipe couplings, the arrangement providing an effective support for hammocks or the like in the use of which the hammocks will be resiliently supported and permitted all desirable movements.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a perspective view illustrating the construction and use of my improved supporter, Fig. 2 is an enlarged sectional view showing the construction of the swinging hanger with the upper bar of the frame, Fig. 3 is a sectional view partly in elevation illustrating the means for securing the side frame bars in adjusted relation, Fig. 4 is an elevation, partly in section, of the heads of the swinging bar to which the hammock is attached, Fig. 5 is a detail perspective of the supporting plate for use with the head.

Referring particularly to the accompanying drawings, my improved supporting frame comprises feet 1, a lower cross bar 2, side bars 3, and an upper cross bar 4, from which latter depends the hanger bars 5.

The respective parts of the supporting frame are made up of tubing of ordinary construction connected by couplings to provide the desired arrangement.

The feet 1, which are identical, comprise short lengths of piping 6 each provided at their outer terminals with elbow couplings 7, and connected at their inner terminals by a tee coupling 8. The free ends of the elbow coupling 7 form a relatively broad bearing to rest upon the supporting surface. One end of the tee coupling 8 is engaged by the head of the second tee coupling 9, the horizontally disposed member of which receives one end

of the rod 11 forming one of the two rods constituting the lower cross bar 2. The adjacent terminals of the rods 11 are connected by a coupling 12, of any desired or preferred type. The side bars 3 of the frame comprise a suitable length of piping 13 and an appropriate length of rod 14, the latter being arranged for telescoping in the pipe section 13 and being secured therein by a clamping coupling 15, which coupling is formed in its relatively inner surface with a threaded portion 16 inclining longitudinally of the coupling and adapted to engage threaded sections 17 of the pipe section 13. The threaded sections 17 are formed sufficiently flexible to be operated by the clamp coupling by longitudinally slitting the end of the pipe section 13, as clearly shown in Fig. 3. By this construction the rod section 14 may be adjusted longitudinally of the pipe section 13 as desired, the clamp coupling operating to hold the parts in the adjusted position.

The upper ends of the rod section 14 of the side bars are provided with tee couplings 19, which in turn are connected to the upper cross-bar 4, the medium of connection being a sleeve 20 equal in exterior diameter to the interior diameter of the cross bar 4 and the elbow coupling 19, the ends of the sleeve being threaded for engagement with the interior surface of the respective coupling and cross bar and being of such length that when in place a plain surface 21 is provided between the ends of the adjacent coupling and cross bar. A bearing sleeve 22 is revolvably supported on the plain portion 21 of the connector sleeve 20, the ends of the bearing sleeve being adapted to bear against the respective ends of the elbow coupling and cross bar, so that said sleeve 22 is permitted a free revolution against the connector sleeve 20 but is held against longitudinal movement thereon. The bearing sleeve 22 is formed with an offset coupling 23 interiorly threaded for the reception of a head 24 of a rod 25 forming part of the hanger 5. The lower end of the rod 25 is adapted to fit within a pipe section 26, being secured therein by a nut 27 threaded on the end of the pipe section and formed with an interior annular rib 28 to provide an upper bearing or limiting rib for a coil spring 29 arranged within the pipe section 26 and encircling the rod, the lower end of the spring being fixed relative to the rod by a cross pin 30, all as clearly shown in Fig. 2.

The lower end of the sleeve section 26 is provided with a tee coupling 31 to the cross connection of which are attached couplings 32. The free ends of the elbow couplings 5 are connected to a supporting plate 33 through the medium of screw bolts 34 passed through openings 35 in the supporting plate and entering the couplings. The supporting plate is of approximately Z-form having 10 the lower offset section 36 adapted for the reception of the hammock, cradle, or other receiver 37.

Through the medium of the various couplings described the respective parts of the 15 supporting frame may be readily disconnected for packing into close quarters when it is desired, and this constitutes the essential feature of the present invention. Furthermore, the materials employed are such 20 as are ordinarily constructed for other purposes, so that the article produced by my invention is of essential simplicity and inexpensive in manufacture.

It is, of course, to be understood that the 25 supporting plate 33 is to be specially constructed with specific regard to the article to be supported. In the event of a hammock being supported by the frame, the projecting plate 36 may be in the form of a hook to re- 30 ceive the hammock rings.

The free movement of the bearing sleeve 22 permits the swinging movement of the hangers 5 of the upper cross bar, while the spring connection between the rod 25 and 35 pipe section 26 provides for longitudinal movement of these parts with relation to each other under the weight supported in the hammock.

The length of the section 6 of the feet is 40 preferably such to provide a stable support for the frame, while the length of the cross bars 2 and 4 are to be limited only by the purpose for which the frame is designed. The upper cross bar 4 of the frame may be

adjusted to or from the lower cross bar 45 through the medium of the sliding rods 14 and the clamp couplings 15, as will be obvious from Fig. 3 of the drawings.

Having thus described the invention what is claimed as new, is:—

1. A hammock supporter comprising adjustable side bars, an upper cross bar removably connected to the side bars, hangers rev- 50 olubly supported on the upper cross bar, said hangers comprising slidably connected 55 sections, and a spring resisting independent movement of the sections in opposing directions.

2. A hammock supporter comprising side bars including independent sections, means 60 for clamping said sections in adjusted position, an upper cross bar, a sleeve having threaded connection with each side bar and with the adjacent ends of the upper cross 65 bar, and hangers revolubly supported on the sleeve, said hangers comprising slidably connected sections, and a spring resisting 70 movement of the respective sections in opposing directions.

3. A hammock supporter comprising side 75 bars including independent sections, means for clamping said sections in adjusted position, an upper cross bar, a sleeve having threaded connection with each side bar and with the adjacent ends of the upper cross 80 bar, hangers revolubly supported on the sleeve, said hangers comprising slidably connected sections, a spring resisting movement of the respective sections in opposing direc- 85 tions, and hammock supporting plates carried by the hangers.

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

WILLIAM GRAY.

Witnesses:

MATT HOFFELT,
A. A. GIDEON