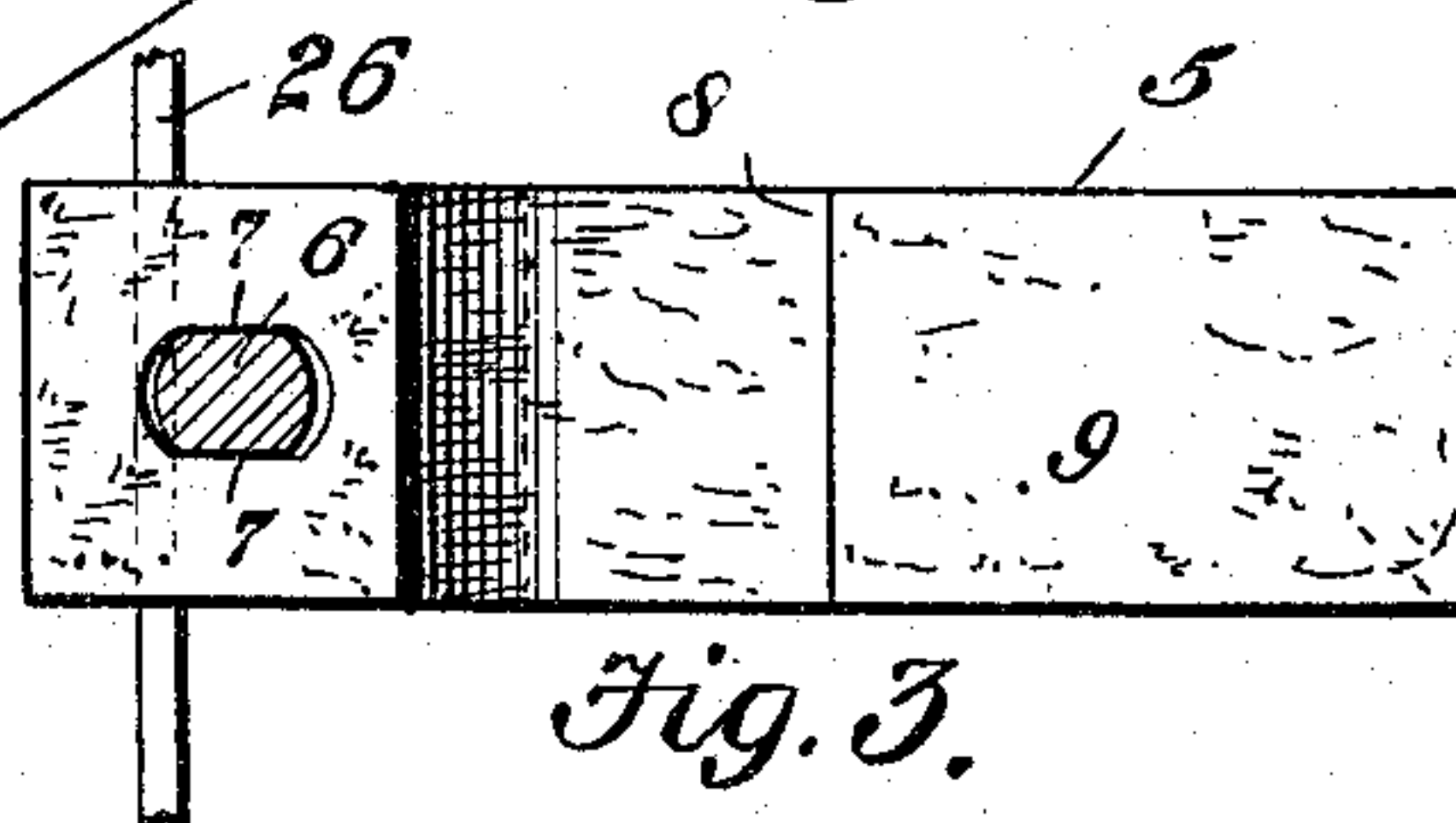
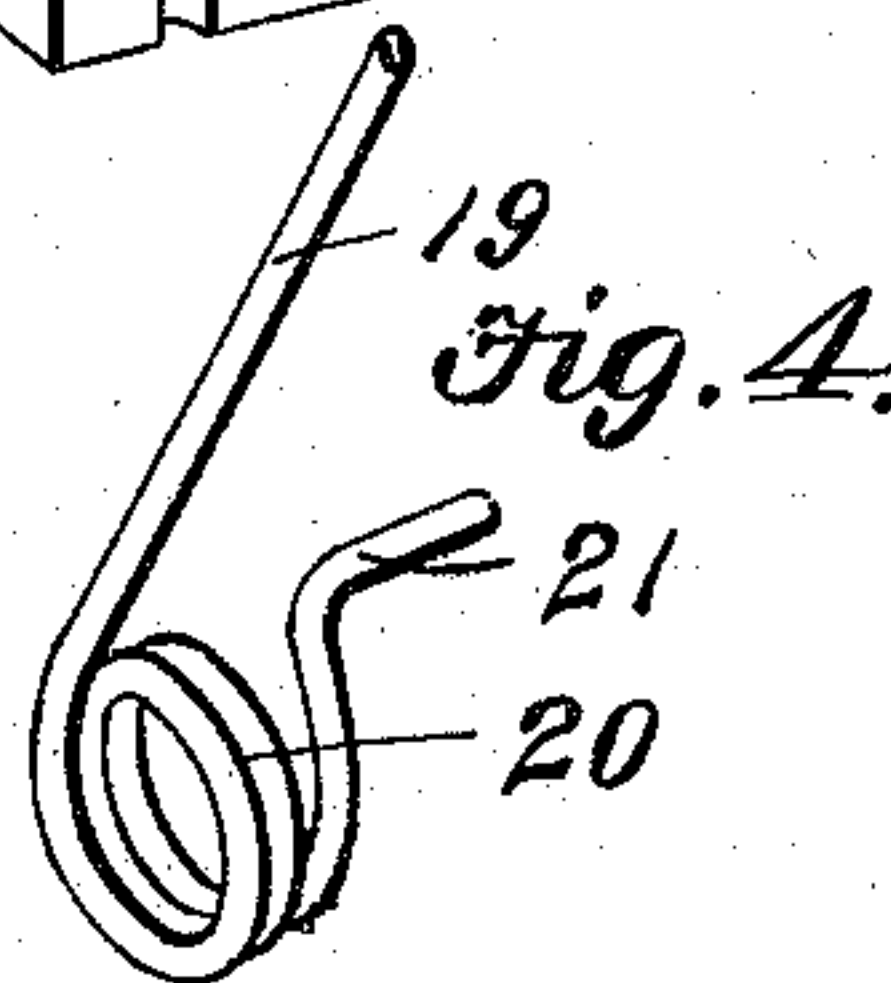
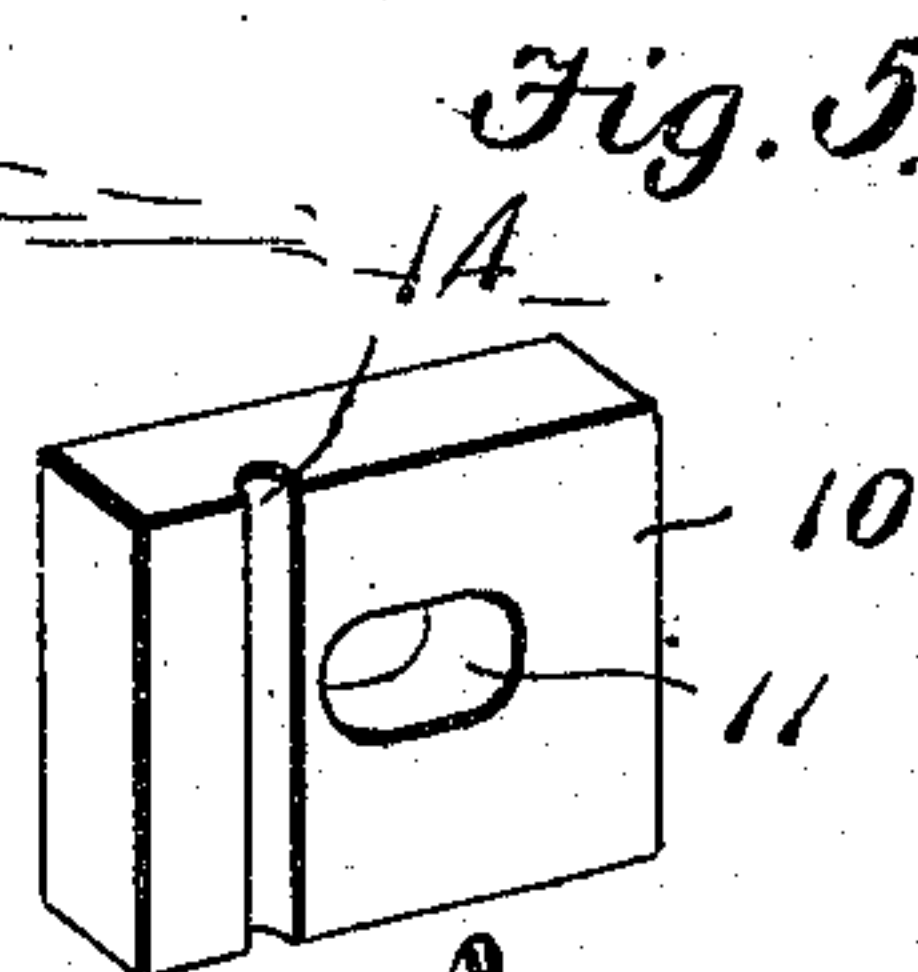
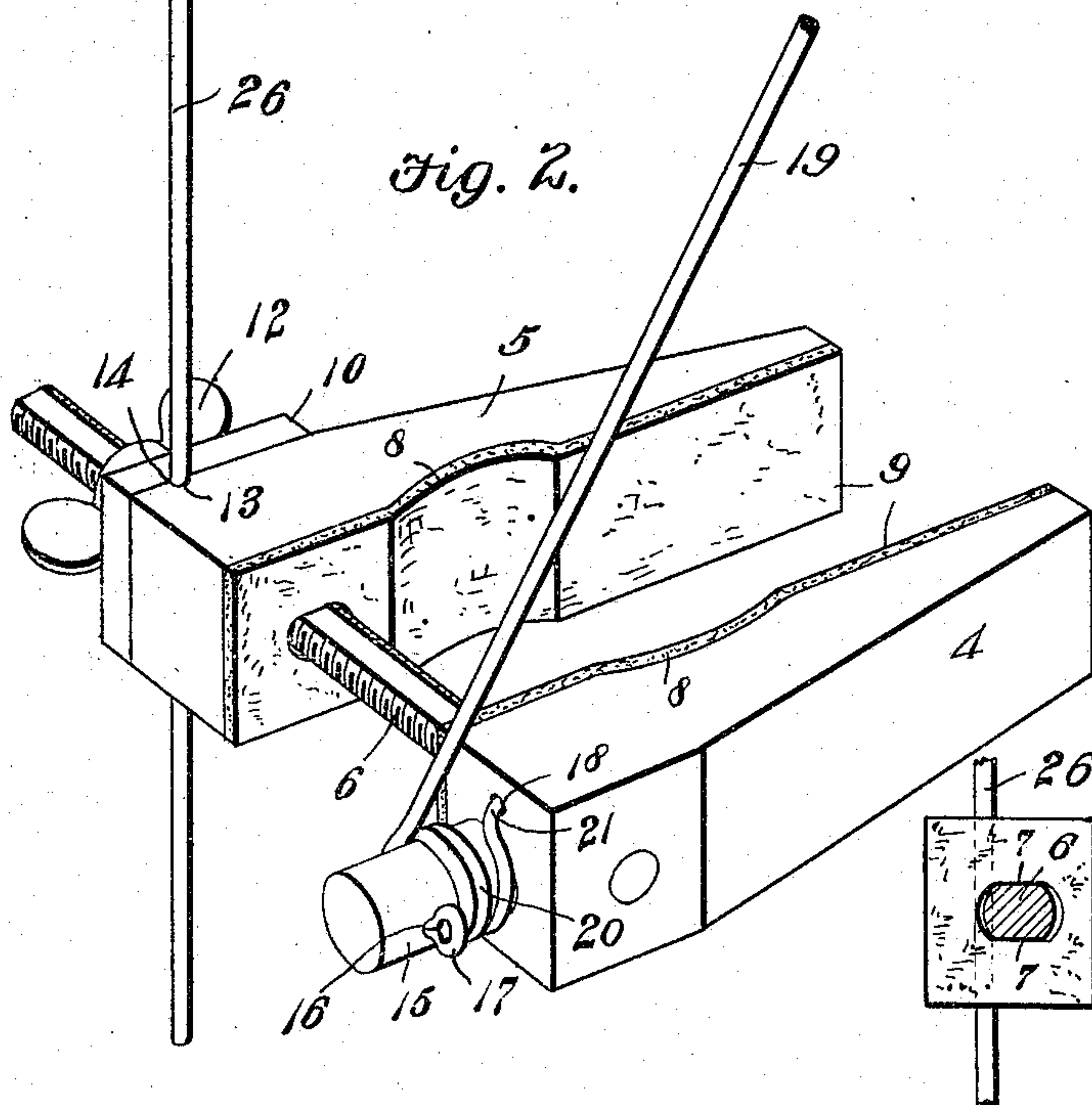
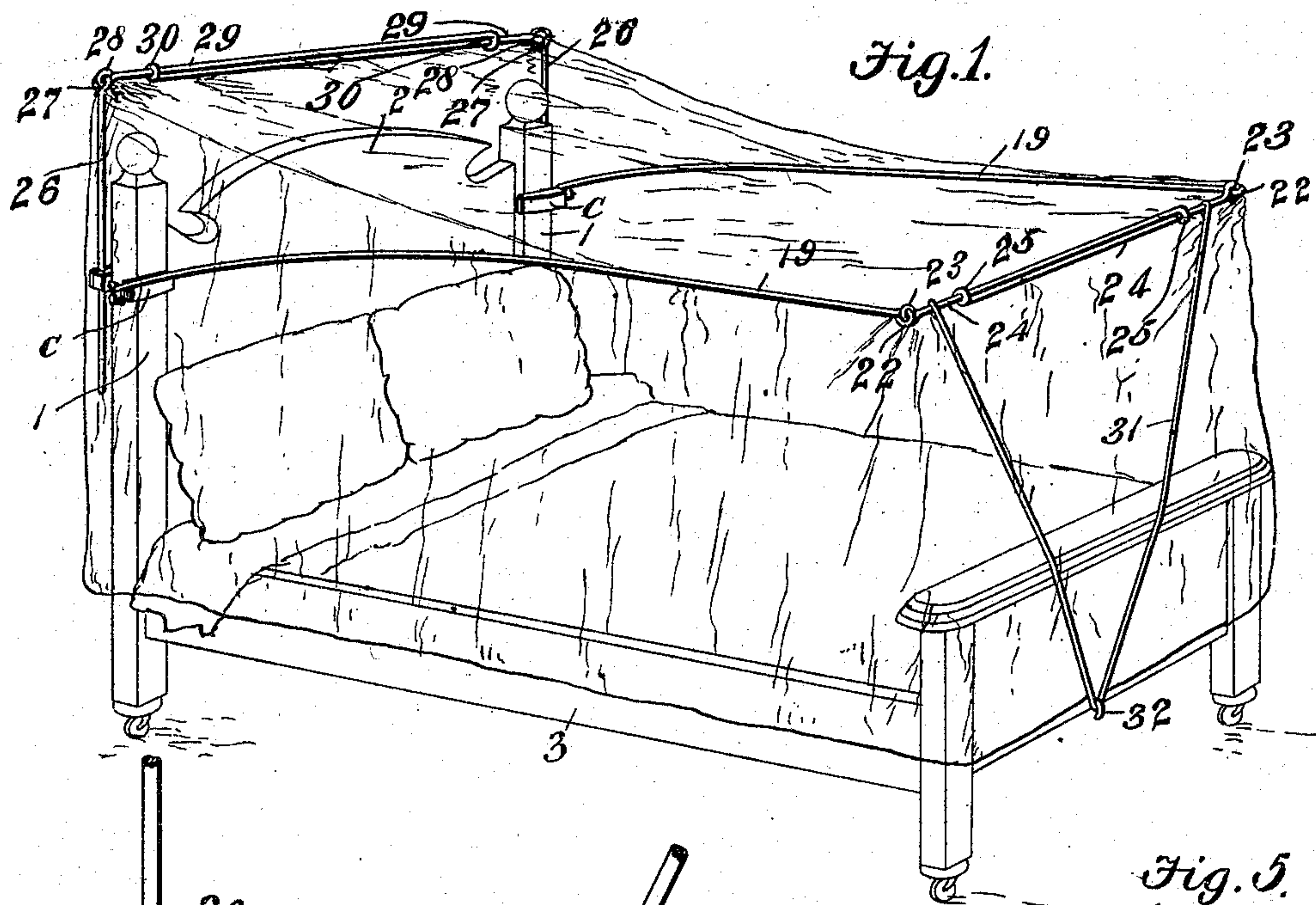


No. 840,652.

PATENTED JAN. 8, 1907.

P. M. OWEN.
MOSQUITO BAR SUPPORT.
APPLICATION FILED DEC. 8, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PETER M. OWEN, OF HOPKINSVILLE, KENTUCKY.

MOSQUITO-BAR SUPPORT.

No. 840,652.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed December 8, 1905. Serial No. 290,954.

To all whom it may concern:

Be it known that I, PETER M. OWEN, a citizen of the United States, residing at Hopkingsville, in the county of Christian and State of Kentucky, have invented a new and useful Mosquito-Bar Support, of which the following is a specification.

This invention relates to supporting devices for mosquito-bars or canopies; and among the objects of the invention are to construct an improved device of this class which shall be automatic in operation to the extent that when released from holding means with which it is provided it will serve to automatically elevate the netting or canopy supported thereby to an out-of-the-way position where it will not interfere with convenient access to the bed or couch with which it is connected for the purpose of making up the same.

Another object is to construct an improved device of the class referred to which may be conveniently folded into small compass and which shall be adjustable as to the size of bed or couch in connection with which it is used.

Another object is to provide improved attaching means for the device whereby it may be fitted or attached for operation upon bedsteads of various kinds and constructions or upon posts or supporting means of different sizes and shapes without injury or danger of defacement to the parts upon which the device is mounted and without the use of nails, screws, or similar attaching means.

Other objects of the invention are to simplify and improve the general construction and operation of this class of devices.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a perspective

view showing the invention applied to an ordinary bed. Fig. 2 is a perspective view of one of the clamps forming part of the invention. Fig. 3 is a sectional view of the clamp looking in the direction of the face of the rear jaw. Fig. 4 is a perspective detail view, showing one end of the main frame. Fig. 5 is a perspective detail view of one of the washers.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

In carrying this invention into practical operation there is provided a pair of clamps C C, adapted to be mounted for operation upon supporting means, such as the corner-posts 1 1 at the ends of the headboard 2 of a bed 3. Said clamps, which are of identical construction, each includes a front jaw 4 and a rear clamping-jaw 5, the front jaw being provided with a rearward-extending screw-threaded stem or rod 6, upon which the rear jaw is slidably mounted, the stem or rod 6 being flattened upon diametrically opposite sides, as will be clearly seen at 7 in Fig. 3 of the drawings, and the receiving-aperture in the jaw 5 being correspondingly shaped, so that the said jaw will be prevented from turning or twisting upon the screw-threaded stem, but will be kept in alinement with the front jaw 4. The opposing faces of the jaws 4 and 5 are preferably provided with concave recesses 8, so that they will be adapted to be clamped, if need be, upon a post or upright of circular cross-section, such as is commonly found in iron beds. The opposing faces of the jaws are also preferably protected by a covering of felt, 9, or analogous material, so that they will be prevented from scratching or defacing the parts with which they are placed in contact.

Upon the stem 6 adjacent to the rear jaw is placed a washer 10, having a non-circular aperture 11 of suitable shape to engage the stem without turning thereon, and adjacent to the washer is placed a thumb-nut 12, whereby the parts may be tightened together. The opposing faces of the rear jaw 5 and the washer 10 are provided with vertical grooves 13 14, registering with each other, the purpose of which will presently appear.

The front jaw 4 of each clamp is provided with a laterally-extending trunnion 15, hav-

ing an aperture 16, through which extends a split key or cotter-pin 17. In the side of the jaw adjacent to the trunnion is formed a recess 18, which is parallel to the axis of the trunnion.

The canopy-frame includes a pair of side members 19, formed of stout spring-wire and each provided at what may be termed its "inner" end, whereby is meant the end which is connected with the clamp, with a coil 20, adapted to engage the trunnion 15, upon which it is held or retained by means of the key 17, said coil terminating in an arm 21, bent at an angle to the coil and parallel to the axis of the latter, so as to engage the recess 18 in the jaw 4. When thus fitted in position, the frame-bar 19 will normally occupy an approximately upright position, substantially as indicated in Fig. 2 of the drawings; but it is obvious that the inherent resiliency of the frame-bars and coils will permit said frame-bars to be lowered to the position indicated in Fig. 1. The frame-bars are provided at their outer ends with eyes 22, in which are linked eyes 23, formed in the ends of end members 24, the extremities of which are provided with loops 25, encircling one another, so that the said end members will be telescopically connected in such a manner that they may be extended or collapsed at will.

Fitted in the grooves 13 14 in the opposing faces of the jaws 5 and the washers 10 are upright rods 26, provided at their upper extremities with eyes 27, that are flexibly connected with eyes 28, formed upon end members 29, each of which is provided with a loop 30, encircling the other end member, so that the two end members 29 will be extensibly and collapsibly or telescopically connected with each other, thereby enabling the end frame formed by the uprights and end members to be fitted upon bedsteads of different widths. The end frame composed of the uprights 26 and the end members 29 may be dispensed with, if desired. If the bedstead upon which the device is adjusted has a tall square headboard, the said end frame will be unnecessary. If, on the other hand, the headboard is quite low or if the outline of said headboard is irregular, it is preferred to use the head-frame. Connected with the end members 24 are the ends of a pull-cord 31, which is adapted for engagement with a hook 32 at the foot end of the bed.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The device is capable of being very easily and quickly detached or mounted in operative position upon the frame of a bed or couch, and, as will be readily seen, it will adapt

itself to bed-frames of different widths. The device when mounted in position, as shown in Fig. 1, constitutes a frame upon which a canopy of mosquito-netting may be conveniently supported. By detaching the pull-cord 31 from the hook 32 the frame will rise and elevate the mosquito-bar or canopy to an out-of-the-way position, making the bed conveniently accessible.

Within the scope of the invention the extensible and collapsible end members may be constructed of tubing telescopically connected.

Various other mechanical changes may be made within the scope of the invention and without departing from the spirit or sacrificing the efficiency of the same.

Having thus described the invention, what is claimed is—

1. In a device of the class specified, a pair of clamps adapted to engage upright supports and each including a jaw having a trunnion extending from the end thereof, there being a recess formed in the end of the jaw at a point adjacent to and parallel with the axis of the trunnion, resilient frame-bars having terminal coils wound around the trunnions, the inner ends of the coils lying against the ends of the jaws and provided with arms bent parallel to the axes of the coils and entering said recesses, and locking-pins extending through the trunnions for limiting outward movement of said coils.

2. In a device of the class described, a pair of clamps adapted to engage upright supports; each of said clamps including a front jaw having a laterally-extending trunnion and a flattened screw-threaded rod, a rear jaw slidable upon said rod, and a tightening-nut.

3. In a device of the class described, a pair of clamps adapted to engage upright supports; each of said clamps including a front jaw having a laterally-extending trunnion and a flattened screw-threaded rod, a rear jaw slidable upon said rod and having a vertically-grooved rear face, a washer slidably engaging the screw-threaded rod and having a vertically-grooved front face, and a tightening-nut.

4. In a device of the class described, a pair of clamps adapted to engage upright supports; each of said clamps including a front jaw having a laterally-extending trunnion and a flattened screw-threaded rod, a rear jaw slidable upon said rod and having a vertically-grooved rear face, a washer slidably engaging the screw-threaded rod and having a vertically-grooved front face, and a tightening-nut; a main frame having side members provided with terminal coils engaging the trunnions of the clamps and connected with the latter, and end members flexibly

connected with the side members and telescopically connected with each other; and an end frame including uprights fitted between the grooved faces of the rear jaws and
5 the washers, and end members flexibly connected with said uprights and telescopically connected with each other.

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

PETER M. OWEN.

Witnesses:

W. T. TAUDY,

J. A. YOUNG, Jr.