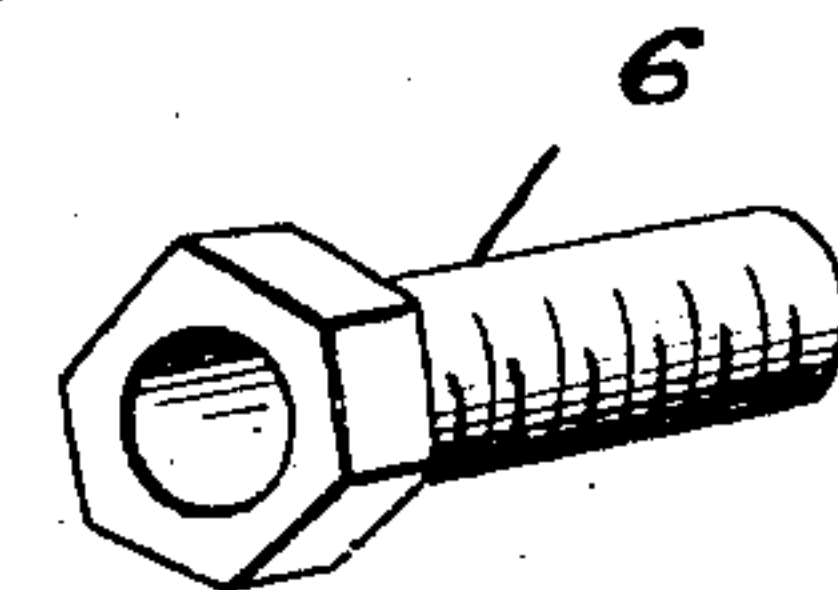
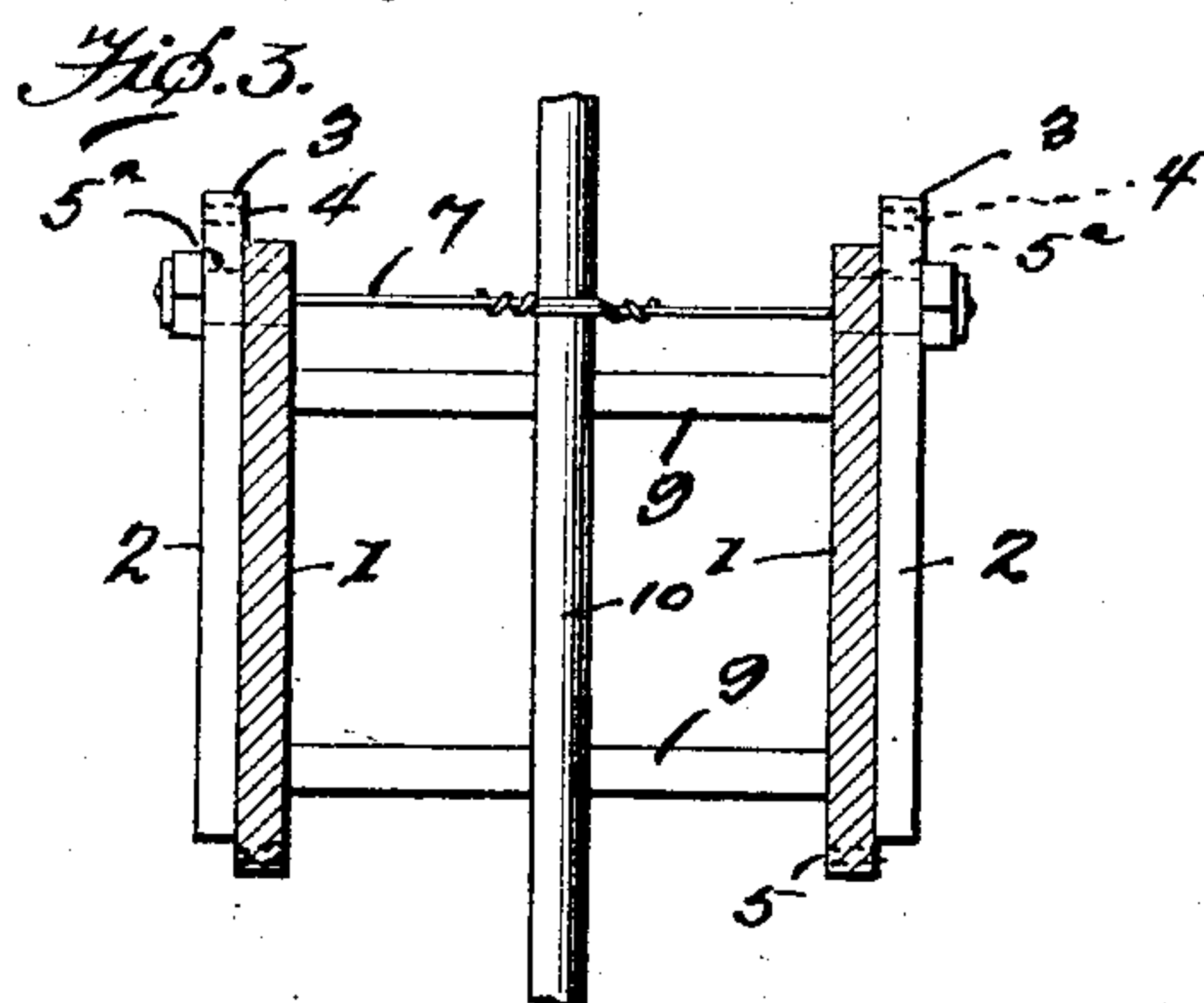
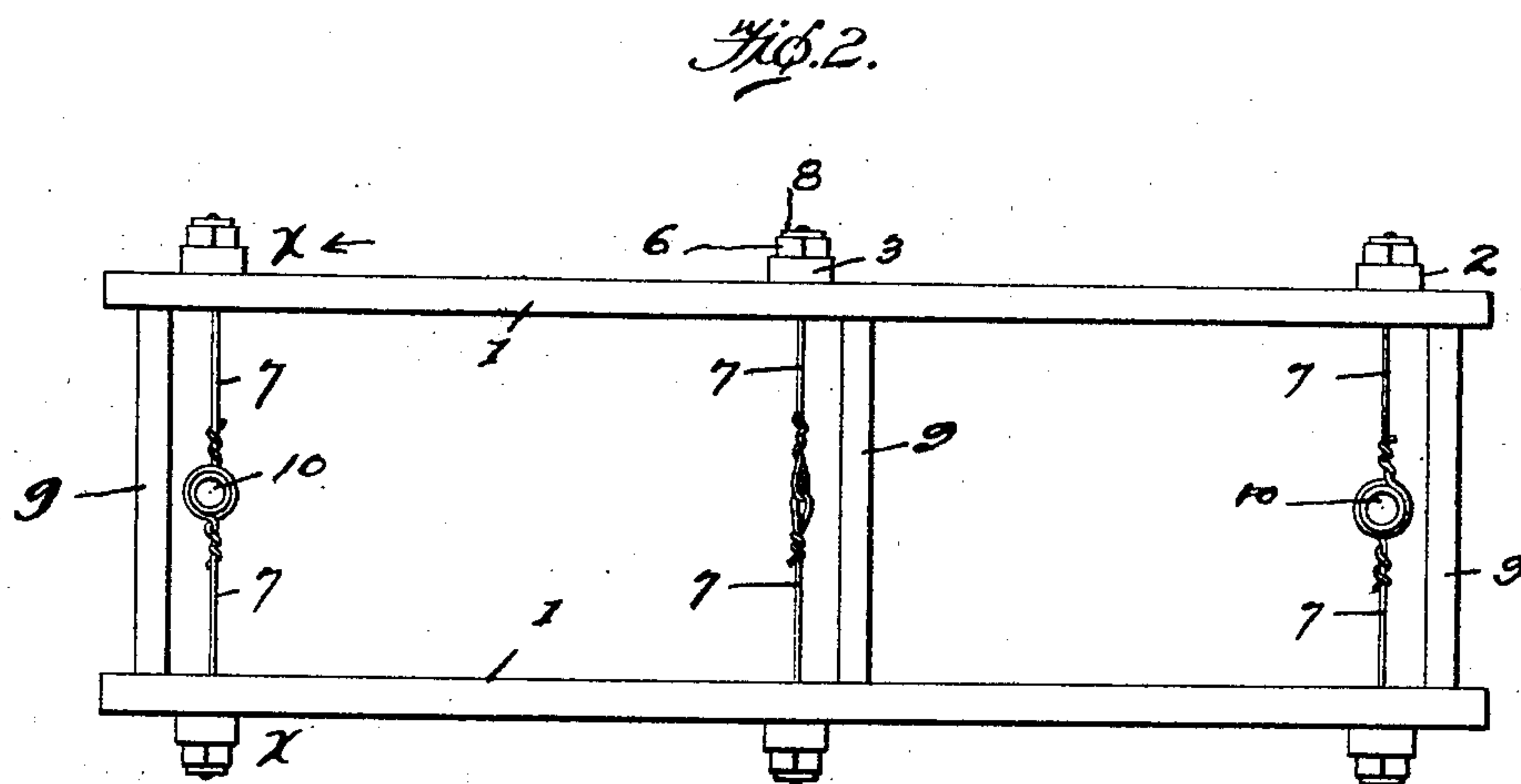
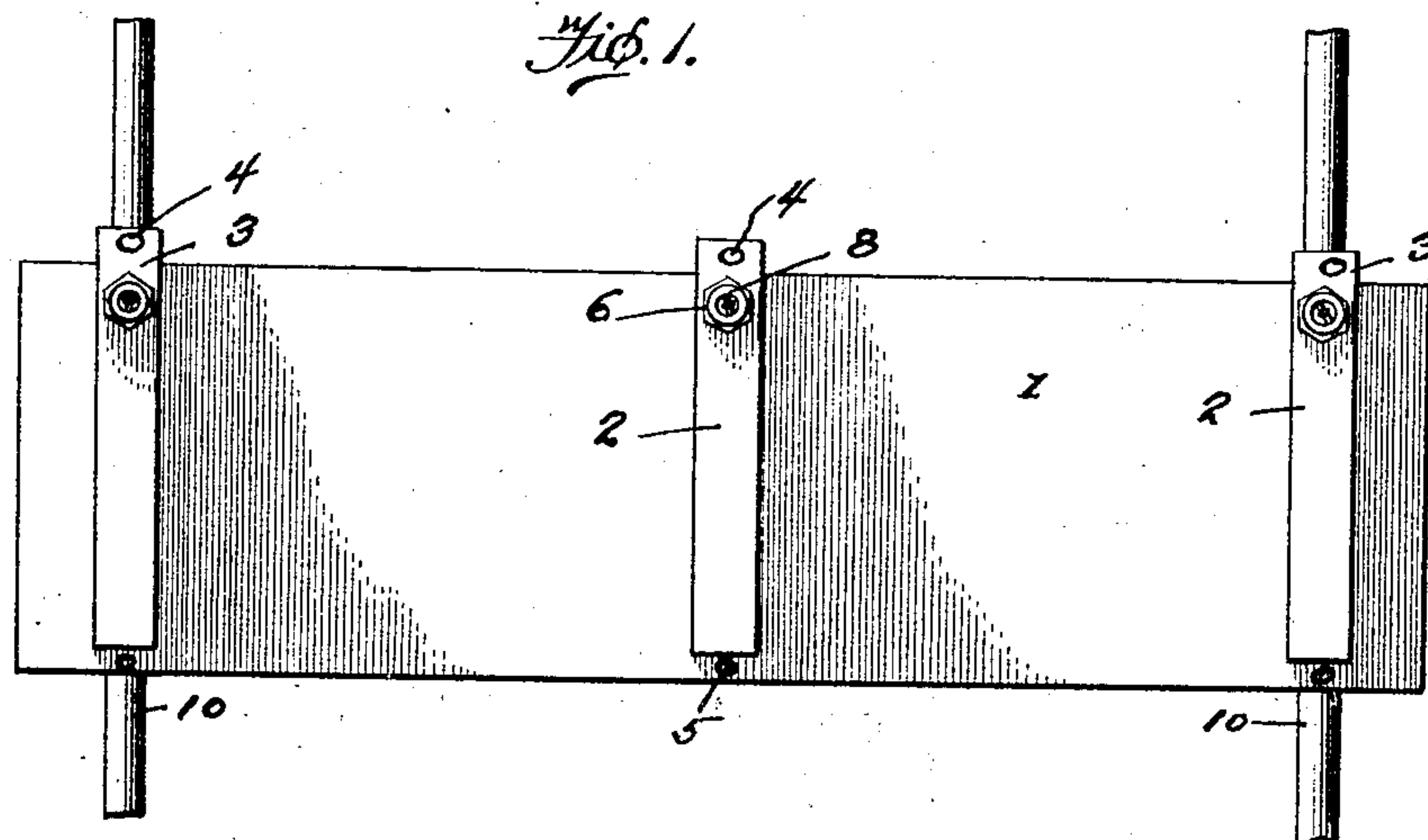


G. W. STEVENS.
MOLD FOR REINFORCED CONCRETE WALLS.
APPLICATION FILED FEB. 19, 1907.

930,102.

Patented Aug. 3, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. STEVENS, OF LYNN, MASSACHUSETTS.

MOLD FOR REINFORCED-CONCRETE WALLS.

No. 930,102.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed February 19, 1907. Serial No. 358,279.

To all whom it may concern:

Be it known that I, GEORGE W. STEVENS, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Molds for Reinforced-Concrete Walls, of which the following is a specification, reference being had therein to the accompanying drawing.

My present invention relates to improvements in molds for reinforced concrete walls, and has special reference to a new and improved mold, which is especially adapted to be used in connection with concrete walls, curbing and other concrete work, the object being to provide a mold sustained from the inside and which is quickly and readily placed in position and which is built or assembled as the work progresses.

To attain these objects the invention consists of a new and improved construction of mold and frame as will presently appear.

In the accompanying drawings, Figure 1 is a side elevation of a complete mold and the frame thereof, Fig. 2 is a top plan thereof, Fig. 3 is a cross section taken on line X—X, of Fig. 2. Figs. 4 and 5 are detail views of various parts.

Referring to the drawings:—I employ form boards 1, upon the outer face of which are a series of cleats, 2, whose upper ends extend above the upper edge of the form boards as at 3, and provide a means to prevent the lower edge of the next form boards, which rest upon the lower form boards, from spreading. The upper portion 3, of the cleats is provided with an opening 4, which is adapted to aline with the opening 5 near the bottom of the upper mold, the depth of the opening 5 not being the thickness of the board. A threaded rod or bolt 6 is adapted to pass through this opening 5^a and have a wire 7, which extends through the form or mold, also extended through the bolt, the purpose of which will presently appear. The bolt 6 may be constructed in different manners but preferably as a hollow screw, as indicated in Fig. 4, so that the wire 7, passes therethrough and is connected to the outer face by any well known means, preferably by means of a nut or washer 8, so that the outer end of the wire will not slide through the bolt as the wire is tightened to draw the sides of the molds together against the interior braces or separators 9. Any form by means of which the wire is connected to this

bolt 6 may be used without departing from the spirit of my invention.

The novel idea of my improved mold rests almost entirely upon the means whereby I hold the frame in position from the inside of the wall or mold. The wires are not removed from the concrete it simply being necessary to disconnect them from their washers and remove the forms.

Mounted between the boards 1 are the frames or pipes 10, whose lower ends extend into the earth below the first form, and project upwardly, providing a means whereby the wires 7, are connected thereto so as to properly hold the forms against the ends of the braces 9, the wires being tightly secured to the frames 10, so that the said frames form a central holding means for the molds. These frames are left within the wall and assist in forming a reinforced concrete wall.

From the foregoing description, it is evident that I provide a new and novel construction of frame or mold for concrete structures, the said mold being constructed in sections and so secured together as to be readily removed when the wall or structure has become set, it simply being necessary to disconnect the wires from the washers and the sides of the molds, after which the form boards are readily removed.

What I claim as new and desire to secure by Letters Patent is:—

1. In combination with a metal framework to remain in the wall, of a mold, comprising a series of form boards adapted to rest one upon the other as the wall is built, means for holding the boards apart, flexible means connected to the framework and passing through to the exterior of the boards, and means mounted in the boards for engaging the exterior ends of said flexible means and tightening said flexible means, whereby the form boards are clamped tightly against the holding means, as set forth.

2. In combination with a metal framework to remain in the wall, of a mold or frame comprising the form boards, a series of cleats connected to the exterior thereof and having their upper ends projecting above the upper edge of the boards for receiving the lower edge of other boards, and to prevent the spreading thereof, a series of braces abutting against the inner faces of the boards to regulate the distance apart, and means for connecting the boards to said framework to hold the boards in assembled position and allow

them to be readily removed after the structure has set.

3. In combination with a metal framework to remain in the wall, of a mold or frame
5 as herein described, consisting of the form boards, braces for holding the boards apart, cleats carried upon the outer face of the boards and having their edges projecting
10 above the upper edge thereof adapted to engage other boards to prevent the spreading thereof, and flexible means passing through

the cleats and boards and engaging the framework for holding the boards in close proximity to the braces and whereby the mold plates are readily disconnected by dis- 15 engaging said flexible means.

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

GEORGE W. STEVENS.

Witnesses:

HARRISON DUNHAM,

GEORGE H. RICHARDS.