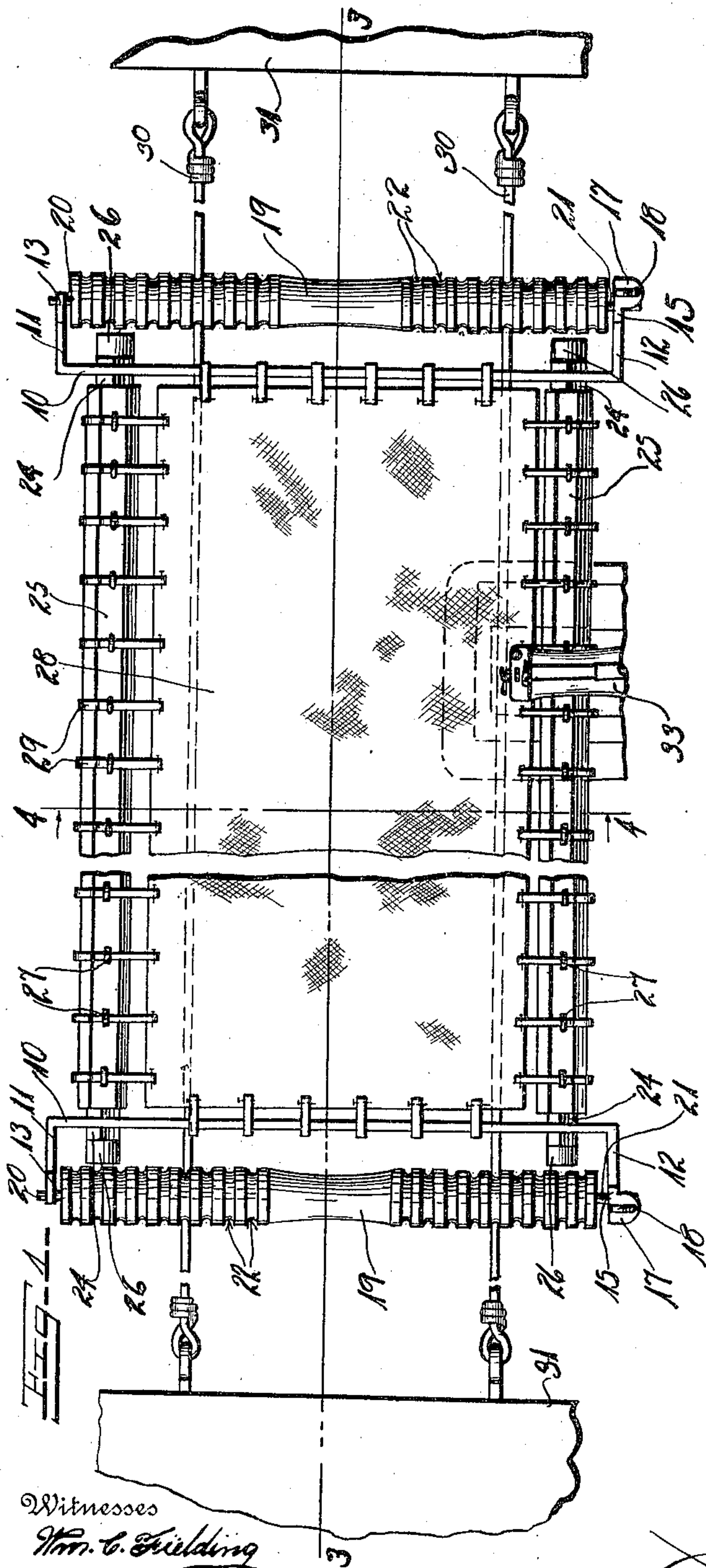


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 QUILTING FRAME.
 APPLICATION FILED JULY 13, 1910.

Patented Aug. 1, 1911.

2 SHEETS-SHEET 1.

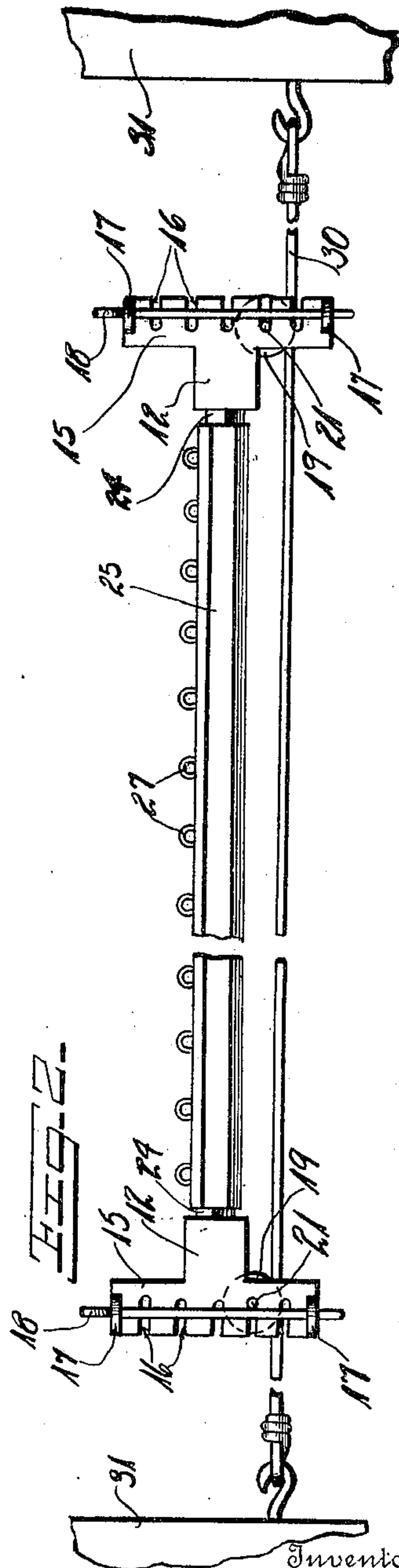


Witnesses
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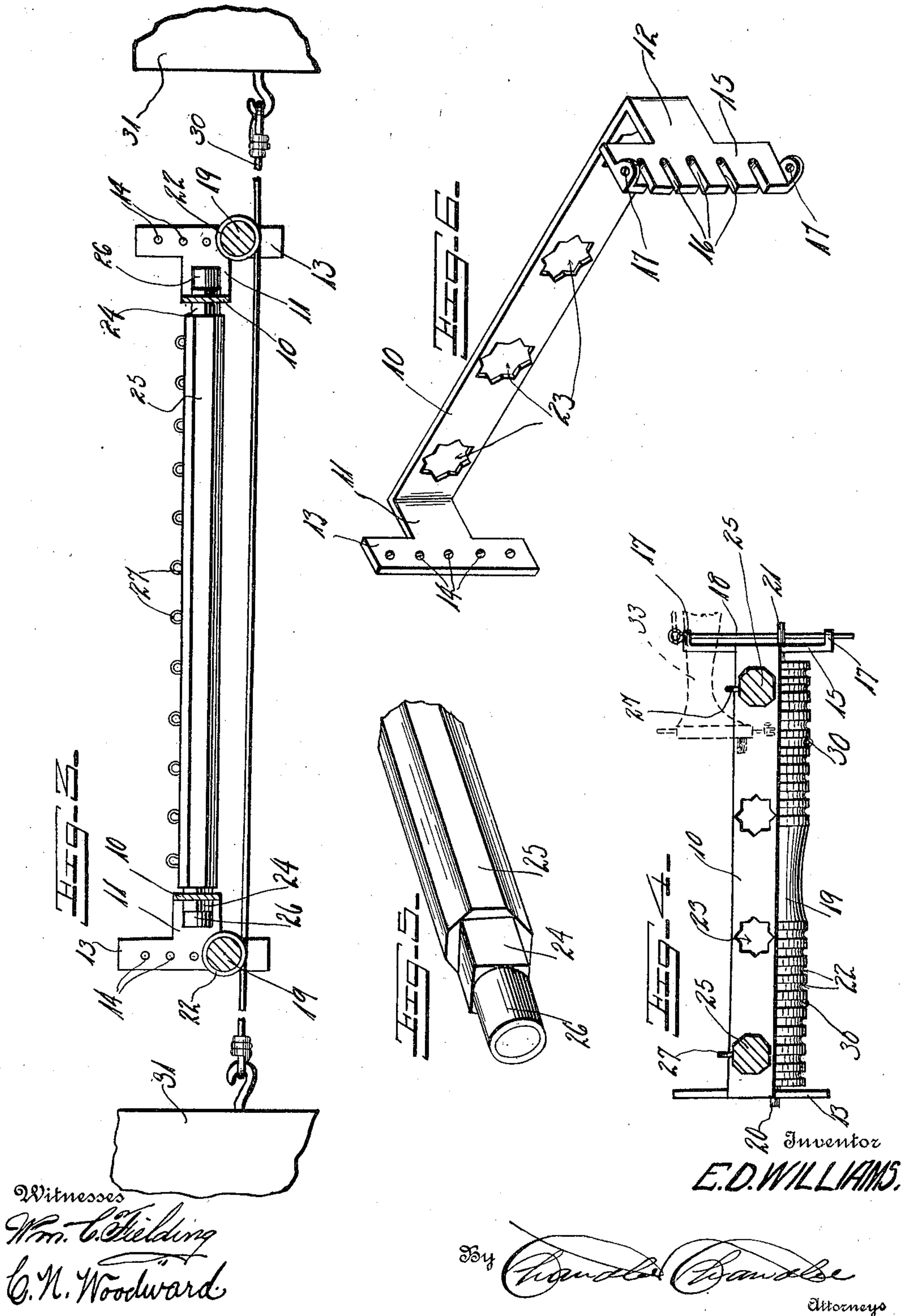
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2 SHEETS-SHEET 2.



UNITED STATES PATENT OFFICE.

EDWARD D. WILLIAMS, OF CARNEGIE, OKLAHOMA.

QUILTING-FRAME.

999,535.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed July 13, 1910. Serial No. 571,714.

To all whom it may concern:

Be it known that I, EDWARD D. WILLIAMS, a citizen of the United States, residing at Carnegie, in the county of Caddo, State of Oklahoma, have invented certain new and useful Improvements in Quilting-Frames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in quilting frames, more particularly to the class of devices of this character wherein provision is made for adjusting the frame to quilts of various sizes, and likewise so arranged that the quilt may be moved past a sewing machine to enable the latter to be employed upon the quilt.

Another object of the invention is to provide a device of this character wherein provision is made for guiding the quilt to produce lines of stitching at uniform distances apart, and wherein patterns of various kinds may be produced.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claim; and, in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is a plan view of the improved device, Fig. 2 is a side elevation of the same, Fig. 3 is a section on the line 3—3 of Fig. 1, Fig. 4 is a section on the line 4—4 of Fig. 1. Fig. 5 is a perspective view, enlarged, of a portion of one of the side members or winding drums, Fig. 6 is a perspective view, enlarged, of one of the end members.

The improved device is constructed of three pairs of parts, one pair of side members, one pair of end members, and one pair of guiding rollers, and like reference characters are employed to designate like parts throughout the drawings. Each of the end members of the improved device consists of a plate 10, preferably of flat metal, with its ends directed laterally, as shown at 11—12.

At its free end the laterally directed portion 11 is extended vertically above and below the body of the plate 10, as shown at 13, and the vertically extended portion provided with a plurality of apertures 14 spaced apart, while the laterally directed portion 12 is likewise provided with a vertically ex-

tending terminal 15 and provided with a plurality of open longitudinal slots 16 corresponding in number and position to the apertures 14. The vertical portion 15 of the plate 10 is also provided with outwardly directed ears 17 through which a rod 18 extends, as shown. Extending between the extensions 11—12 is a roller 19 having studs 20—21 extending from its ends and engaging respectively in one of the apertures 14 and one of the slots 16. The slots 16 are of sufficient depth so that when the stud 21 is located in one of the slots 16 the pin 18 will extend in advance of the stud and thus hold the same in position, this being the object of the pin. By this means the roller 19 may be located in any one of the apertures 14 and its corresponding slot 16, and thus adjust the roller vertically to any required extent within the range of the series of apertures and slots. The roller 19 is provided at its outer portions with spaced annular grooves 22, the object to be hereinafter explained.

Two sets of the plates 10 and the rollers 19 together with the supporting devices are employed, one for each end of the device, as shown in Fig. 1. The plates 10 are each provided with a plurality of openings 23 each formed of two sets of "squares," one square being arranged with its sides horizontal and vertical and the other square being arranged with its sides at an angle of about forty-five degrees, the apertures being designed to receive square ferrules 24 connected to the ends of winding drums 25, the drums being preferably eight-sided, as shown. By this arrangement when the ferrules are located within the apertures 23 the drums will be locked to the plates and prevented from rotation therein. Each of the ferrules is provided with an outwardly directed stud 26 which is adapted to be located in the apertures 23 when the plates 10 are drawn slightly away from each other, and thus provide bearings for the drums to enable them to be rotated, the object to be hereinafter explained. Each of the drums 25 is provided with means for readily attaching the quilt thereto, these preferably being small staples 27.

It will thus be noted that the holding device thus far described is constructed of only six separate pieces besides the locking pins 18, one pair of the plates 10, one pair of the rollers 19, and one pair of the drums 25 with

its ferrules 24 and studs 26. It will also be noted that the device thus far described is not only reversible end for end, but may be inverted, or turned upside down, and present the same appearance no matter which side is located upwardly.

The quilt, represented at 28, is connected to the staples 27 in any suitable manner, preferably by tapes 29, and the drums located in any desired set of the openings 23. The plates 10 are moved outwardly away from each other to bring the studs 26 within the apertures 23, which action will release the drums 25 so that they may be rotated to apply the requisite tension to the quilt, and when the required tension is secured the ferrules 24 are permitted to enter the apertures 23 and will be held from rotation by engagement with the corners produced by the "squares" or irregular arrangement of the apertures. The frame thus produced is adapted to be supported in any suitable manner for movement relative to a sewing machine, and an approved means for supporting the frame is by suspending wires 30, which may be connected in any suitable manner to stationary supports, as for instance the opposite walls of a room, the walls being represented conventionally at 31 and provided with screw-eyes or other suitable devices to which the ends of the supporting wires 30 are connected and drawn sufficiently tight to support the frame.

The grooves 22 in the rollers 19 are designed to engage the supporting wires 30 and thus form guides to the frame to maintain it in position when moved from side to side of the room. The frame is designed to be moved relative to a sewing machine and a portion of a machine is represented conventionally at 33, one of the drums 25 being arranged to move between the table of the machine and the head portion of the sewing machine, as represented in Fig. 4. By this simple arrangement it will be obvious that rows of stitches may be produced in the quilt by simply moving the frame along the

guide wires 30 and operating the sewing machine at the same time, and by providing a sufficient number of grooves 22, and locating them at relatively close intervals, correspondingly spaced rows of stitches may be accurately produced. If it is desired to produce stitches transversely of the quilt, the latter will be removed from the drums and connected thereto in the opposite position, as will be obvious.

The rollers 19 and drums 25 are preferably of wood, while the remaining portions of the device are preferably of metal. By providing a plurality of openings 23, as shown in Fig. 4, the drums 25 may be located closer together, which will be found advantageous under certain circumstances.

The improved device is simple in construction, can be inexpensively manufactured and operates effectually for the purposes described.

What is claimed:—

A quilting frame comprising end members having lateral offsets projecting above and below the end members, the offsets upon one end of said members being provided with a plurality of circular apertures, the offsets upon the other end of said members being provided with a corresponding number of open longitudinal slots, said latter offsets being also provided with apertured ears, guide rollers provided at their ends with outwardly extending studs, said studs being adapted to be rotatably mounted in said apertures and slots, retaining rods passed through said ears and adapted to hold said rollers in adjusted position, and winding drums constituting the side members of the frame and supported for rotation in said end members and means for locking said drums from rotation.

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

EDWARD D. WILLIAMS.

Witnesses:

D. A. LUPER,
W. P. GRIFFIN.