April 5, 1932. W. A. McMILION 1,852,355

QUILT SUPPORT

Filed July 29, 1931 2 Sheets-Sheet 1

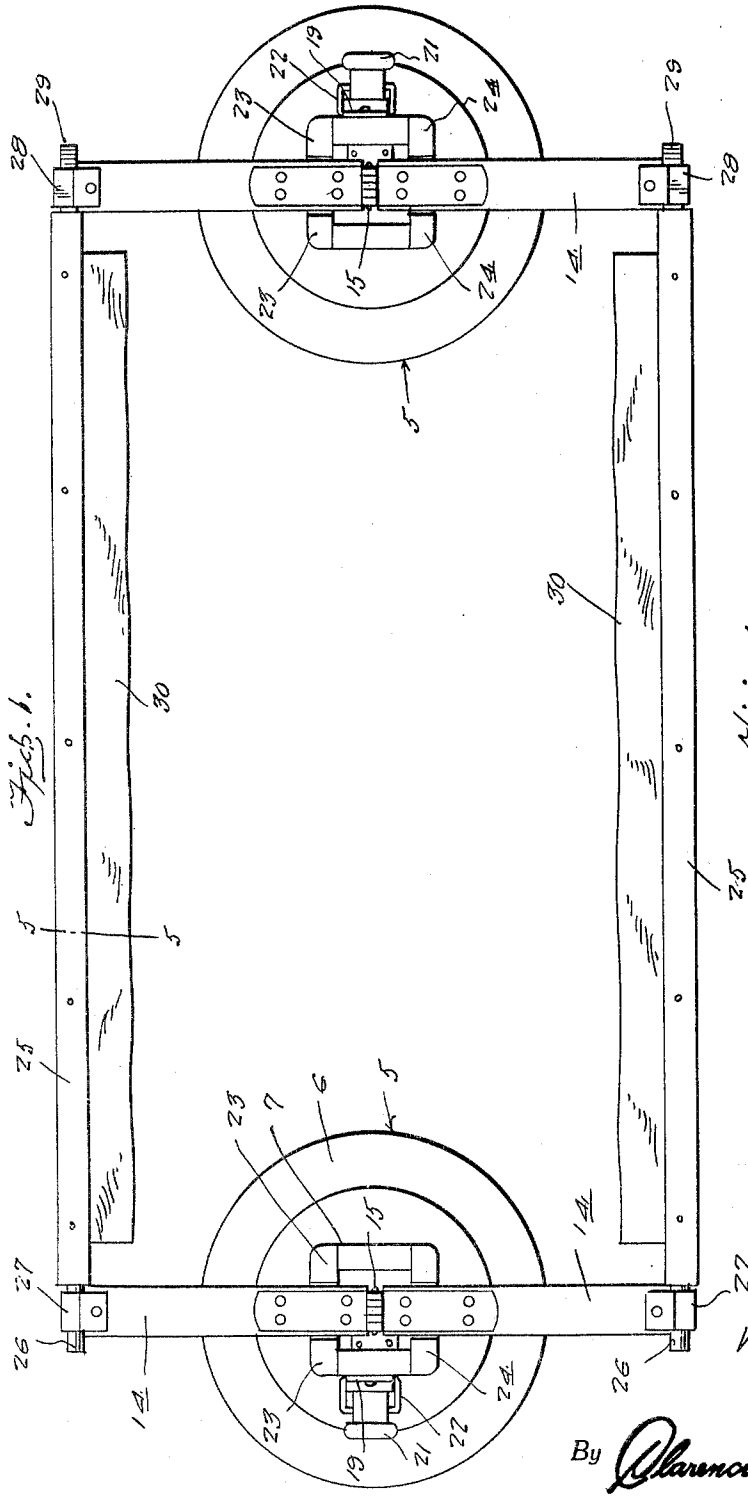

Fig. 1.

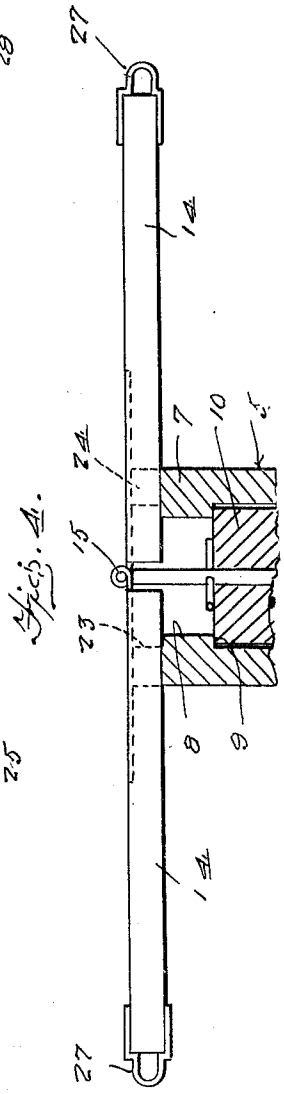

Fig. 4.

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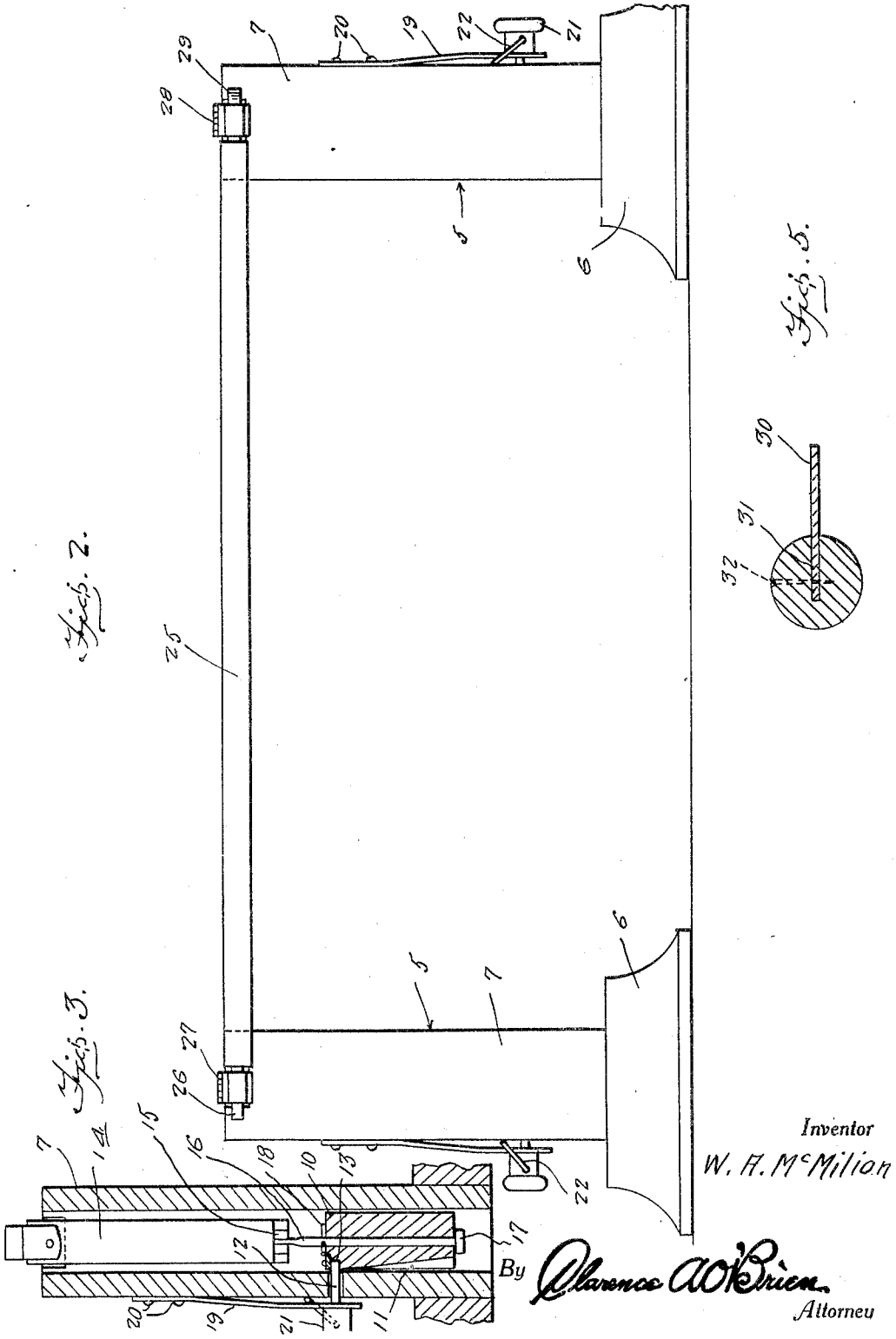

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UNITED STATES PATENT OFFICE

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QUILT SUPPORT

Application filed July 29, 1931. Serial No. 553,837.

This invention relates to new and useful improvements in means for supporting and handling material during the operation of quilting.

The principal object of this invention is to provide a quilting support which can be readily collapsed for storing in a small space.

Another important object of the invention is to provide a collapsible tilting frame which can be readily demounted and collapsed without any difficulty.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

Figure 1 represents a top plan view of the frame.

Fig. 2 represents a side elevational view of the frame.

Fig. 3 represents a fragmentary vertical sectional view through one of the supporting units, showing a part of the frame in collapsed position within the support.

Fig. 4 represents a fragmentary detailed sectional view showing a pair of the supporting arms in extended position.

Fig. 5 represents a cross sectional view taken substantially on lines 5—5 of Fig. 1.

Referring to the drawings wherein like numerals designate like parts, it can be seen that the invention includes a pair of supporting units, each generally referred to by numeral 5. These supporting units are of identical construction and a description of one will suffice for both.

Now considering in detail one of the supporting units, it can be seen that numeral 6 denotes an annulus provided with a central opening for receiving the lower end portion of the hollow post 7 which is substantially of square cross section and provided within its upper end with cleats 8 to provide shoulders 9, against which the slide block 10 can abut to prevent displacement of the block through the upper end of the post.

As is clearly shown in Fig. 3, one side of the block 10 is provided with a downwardly deepening channel 11 along which the pin 12 can ride. A recess 13 is provided in the block 10 at the upper end of the channel, and this recess is to receive the pin 12 so that the block can be retained in the lowered position shown in Fig. 3 and so that the arms 14—14 cannot become accidentally displaced from the post. These arms 14 are connected at their inner ends to a hinge device 15, which in turn is secured to the upper end of the rod 16.

This rod 16 extends longitudinally thru the block and is provided with a head 17 at the lower end thereof for impingement against the bottom of the block. A cross key 18 is provided for disposition through an opening in the rod 16 immediately above the block and so as to prevent shifting of the block on the rod. The aforementioned pin 12 is carried by the free end of an elongated leaf spring 19 which is secured by suitable means 20 at its upper end 20 to the post 7. A knob 21 is provided on the lower end of the spring 19, whereby the spring can be actuated, and this knob 21 carries a bale 22 which can be interposed between the knob and the post 7 for maintaining the spring sufficiently flexed outwardly to maintain the pin 12, displaced from the recess 13.

This is desired, when the blocks are to be raised in the post. It can be observed from a view of Fig. 4, that when the block 10 is elevated so as to abut the shoulders 9, due to the disposition of the arms 14—14 across the upper end of the post and between the protuberances 23—23 and 24—24, the block will be maintained in this position due to the weight imposed on the ends of the arms.

This weight includes the winding poles 25—25. At one end of each pole 25 is a cylindrical reduced protuberance 26 for disposition into the cylindrical detent 27, of one supporting unit 5, while the reduced extension at the opposite ends of the poles 25 are of polygonal cross section for disposition into a polygonal shaped detent 28, the last-mentioned extensions being denoted by numeral 29. Thus, the poles cannot be rotated until the squared end has been removed from its detent 28.

A strip of fabric 30 is secured along each pole 25, by disposing one longitudinal edge portion of the fabric into a slot 31 in the pole and driving retaining members 32 into the

pole so as to pass through the slot and the fabric strip.

It can now be seen, that by removing the poles 25—25, the arms 14—14 of each supporting unit can be swung upwardly to a vertical position and forced downwardly. The block 10 will ride downwardly in the post against the pin 12, and with the pin 12 bearing in the channel 11, until the recess 13 registers with the pin 12 whereupon the leaf spring tension on the pin will urge the pin into the recess to maintain the block and its arm in the post against accidental displacement.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:—

1. A quilting frame of the character described comprising a pair of supporting units, each of said units comprising a hollow post, a block slidable in the post, a pair of arms hingedly connected to the upper end of the block, said arms and block being movable to a position at the upper end of the post, so that the arms can protrude laterally from the post on a substantially horizontal plane, a quilt supporting pole interposed between the corresponding arms on the units.

2. A quilting frame of the character described comprising a pair of supporting units, each of said units comprising a hollow post, a block slidable in the post, a pair of arms hingedly connected to the upper end of the block, said arms and block being movable to a position at the upper end of the post, so that the arms can protrude laterally from the post on a substantially horizontal plane, a quilt supporting pole interposed between the corresponding arms on the units, a detent on each post for retaining the corresponding block in retracted position.

3. A quilting frame of the character described comprising a pair of supporting units, each of said units comprising a hollow post, a block slidable in the post, a pair of arms hingedly connected to the upper end of the block, said arms and block being movable to a position at the upper end of the post, so that the arms can protrude laterally from the post on a substantially horizontal plane, a quilt supporting pole interposed between the corresponding arms on the units, a detent on each post for retaining the corresponding block to retracted position, and means associated with the detent for maintaining the same in inoperative position.

4. A quilting frame of the character described comprising a pair of supporting units, each of said units comprising a hollow post, a block slidable in the post, a pair of arms hingedly connected to the upper end of the block, said arms and block being movable to a position at the upper end of the post, so that the arms can protrude laterally from the post on a substantially horizontal plane, a quilt supporting pole interposed between the corresponding arms on the units, and a shoulder at the interior of the post adjacent the upper end thereof against which the block rests when in elevated position.

5. A quilting frame of the character described comprising a pair of supporting units, each of said units comprising a hollow post, a block slidable in the post, a pair of arms hingedly connected to the upper end of the block, said arms and block being movable to a position at the upper end of the post, so that the arms can protrude laterally from the post on a substantially horizontal plane, a quilt supporting pole interposed between the corresponding arms on the units, said block being provided with a recess therein, and a spring detent on the post for engagement into the recess to retain the block in a definite position within the post.

In testimony whereof I affix my signature.

WILLIAM A. McMILION.