

May 1, 1923.

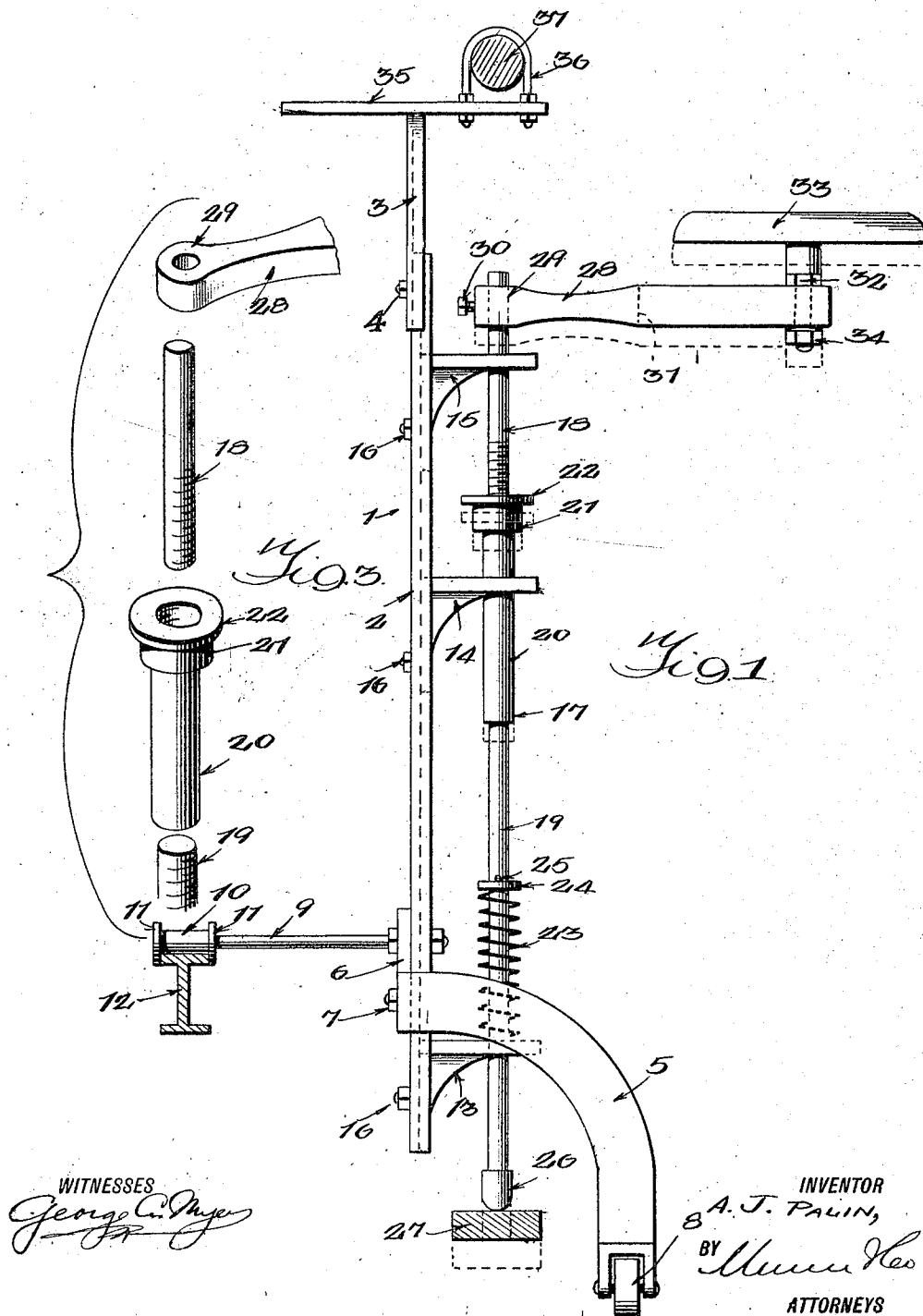
1,453,992

A. J. PALIN

WARPER SEAT

Filed April 17, 1922

2 Sheets-Sheet 1



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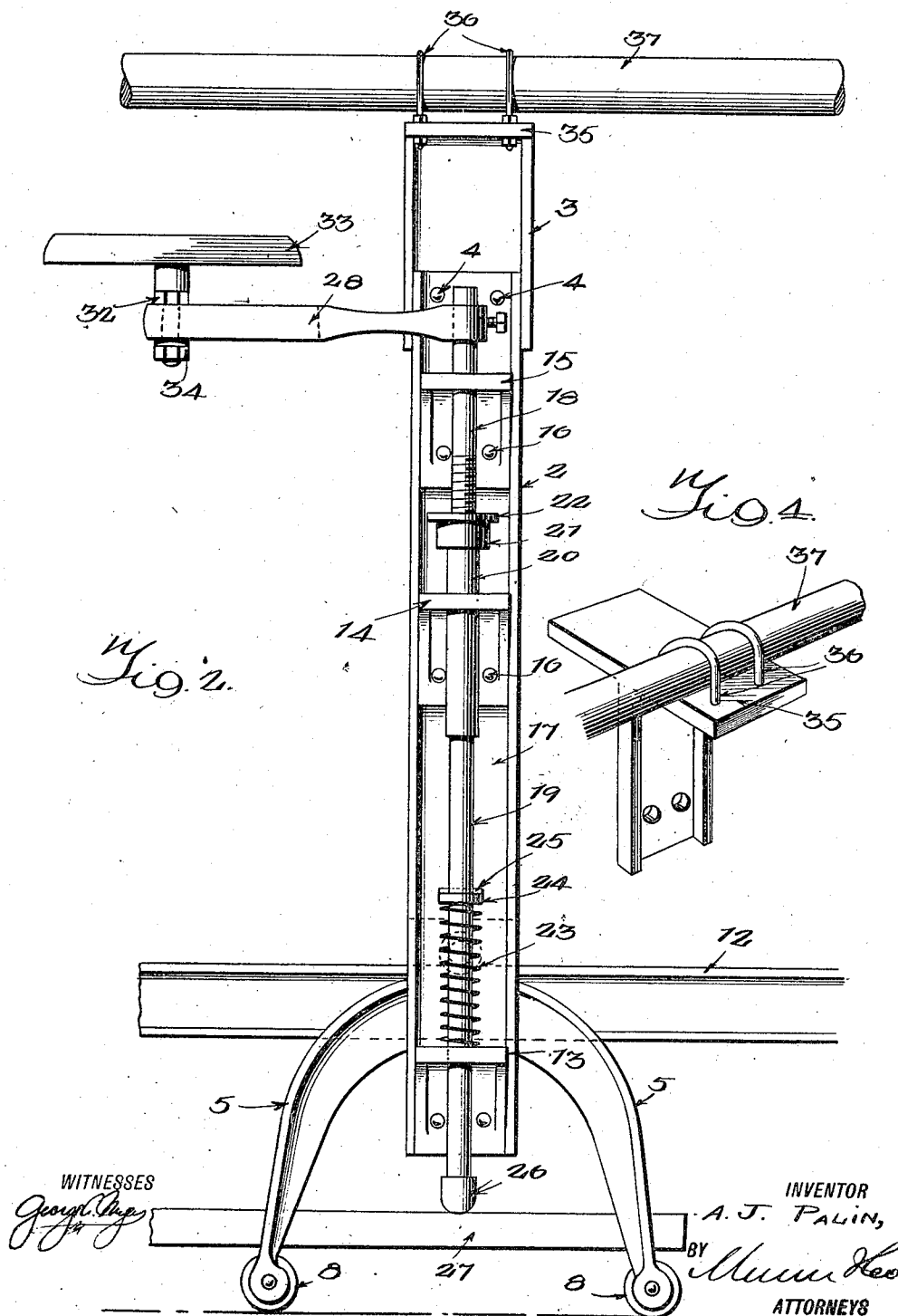
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Patented May 1, 1923.

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UNITED STATES PATENT OFFICE.

ARTHUR J. PALIN, OF PAWTUCKET, RHODE ISLAND.

WARPER SEAT.

Application filed April 17, 1922. Serial No. 553,339.

To all whom it may concern:

Be it known that I, ARTHUR J. PALIN, a citizen of the United States, and resident of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Warper Seats, of which the following is a specification.

My invention relates to seats adapted to be attached to a warping machine or the like, to provide a rest for operators who have heretofore been required to stand while performing their duties, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a device of the character described which is adapted to be attached to a warping machine in a desirable position with respect to a control member of the warping machine and which embodies means operable by the weight of an operator upon a saddle portion thereof to operate the control member of the machine to which attached.

A further object of my invention is to provide a device of the character specified in which the means provided for operating the control member of the machine to which attached is adjustable to permit of regulation of the operation of the control member.

A still further object of my invention is to provide a device of the character specified which can be movably secured to the warping machine or the like and moved out of the way when not in use.

Other objects and advantages will be apparent from the following description, the novel features of the invention will be outlined in the appended claims.

My invention is illustrated in the accompanying drawings, forming a part of this application, in which—

Figure 1 is a side elevation of a practical embodiment of the invention, showing fragmentary portions of the framework of a machine to which attached,

Figure 2 is a front elevation of the structure shown in Figure 1,

Figure 3 is an enlarged fragmentary perspective view showing certain normally connected together parts of the device detached from one another, and

Figure 4 is a fragmentary perspective view of the upper portion of the device and of a support to which attached.

In carrying out my invention, I provide

an upright support 1 which may consist of two overlapping channel or U-shaped sections 2 and 3 respectively secured together by rivets 4 or the like. The upright support 1 is attached adjacent to its lower end to a base member having a pair of outwardly and downwardly curved legs 5, 5 diverging from a body portion 6 which is attached, as at 7 to the upright support. The legs 5, 5 are preferably provided with casters 8 at their lower ends and are adapted to rest upon a supporting surface, such as a floor, laterally of the plane of the upright support 1. A stay or brace rod 9 extends from the body 6 of the base member in a direction opposite that taken generally by the legs 5, 5 and carries at its outer end a roller 10 having flanges 11, 11 at the ends thereof. The roller 10 is adapted to have a rolling contact with the upper flange of a horizontal frame member or track 12 which constitutes a part of the machine to which the device is to be applied and the flanges 11, 11 engage the upper flange of the member 12 at the side edges thereof and tend to hold the roller against displacement.

The upright support 1 is provided with a series of spaced apart brackets 13, 14 and 15 respectively which are attached thereto by any suitable means, such as the bolts and nuts indicated at 16. The several brackets have horizontal arms extending laterally of the upright support and having formed therethrough vertically aligned openings adapted to slidably receive a standard which is indicated generally at 17. The standard 17 comprises vertically aligned rod sections 18 and 19 respectively which extend through the upper and lower brackets 13 and 15 respectively and are adjustably connected by means of a sleeve 20 which extends through the middle bracket 14 and threadedly engages the proximate ends of the sections 18 and 19. The arrangement is such that when the sleeve or union coupling 20 is turned in one direction, the sections 18 and 19 will be drawn together and the length of the standard 17 thus decreased while the length of the standard will be increased when the union coupling 20 is turned in the opposite direction.

The union coupling 20 is enlarged adjacent to its upper end at 21 to provide a stop which is incapable of movement through the opening of the bracket 14 and therefore limits the movement of the standard 17

downward with respect to the upright support 1. The enlargement 21 is preferably provided with a flange portion 22 having the edge thereof knurled to adapt the flange to be conveniently grasped and held in order that the union coupling 20 may be turned as desired.

A coiled expansion spring 23 is disposed upon the section 19 of the upright standard to rest at its lower end upon the bracket 13 and to react at its upper end against a collar or washer 24, the upward movement of which on the section 19 is limited by a transverse pin 25. A shoe 26 fitted upon the section 19 at its lower end rests upon a treadle 27 which forms a part of a warping machine of ordinary construction. A laterally extending bracket arm 28 has a hub portion 29 at its inner end adjustably secured to the section 18 above the bracket 15, as by means of a set screw 30. The bracket arm 28 is provided with a vertical slot there-through extending longitudinally thereof and adapted to receive the stem or shank 32 of a saddle or seat proper 33. A locking nut 34 engaging the stem or shank 32 provides a means for holding the seat or saddle 33 clamped to the bracket arm 28 in adjusted position therealong.

The upright support 1 is provided with a cross head 35 at its upper end and a hanger member or strap 36 connected therewith at its end is arranged to embrace the horizontal shaft 37 which constitutes a fixed part of the machine to which the device is to be applied.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. Prior to my invention, the operator of a warping machine for which the device is primarily although not necessarily designed, has been compelled to stand with one foot upon the treadle 27 to keep the latter depressed in order that the warping machine may continue in operation. When my device is applied to such a machine in the manner described, the weight of the operator seated upon the saddle 33 will cause the standard 17 to move downward and since the shoe 26 of the standard rests upon the treadle 27, the latter will be depressed, thereby attaining the same result as when depressed by foot while relieving the operator of the strain caused by standing in one position for an extended time. When the operator's weight is taken from the saddle 33, the action of the spring 23 will move the standard 17 upward and the pressure upon the treadle 27 is thus removed. The seat 33 can be moved along the slot 31 and releasably held in any adjusted position. Moreover, the extent of

downward movement of the standard 17 can be varied at will by turning the adjusting union coupling 20. The extent of movement of the treadle 27 will thus be varied and the operation of the machine controlled by the pedal thus regulated by an operator seated upon the saddle 33.

Obviously, my invention is susceptible of embodiment in forms other than that illustrated in the accompanying drawings, and I therefore consider as my own all modifications of the forms of the device disclosed herein, which fairly fall within the scope of the appended claims.

I claim:—

1. In combination, a fixed support including a horizontal track member, a movable upright supporting structure having a sliding connection at its upper end with the fixed support and having a rolling contact with the said horizontal track, a vertical standard supported upon the movable supporting structure and being movable in the direction of its length, spring means urging said standard upward, a stop carried by the standard and adapted to engage the movable supporting structure to limit the downward movement of the standard, an arm swingingly supported upon the standard adjacent to its upper end and having a longitudinal slot therein, a saddle having a shank arranged with the lower portion thereof depending through said slot and having the upper portion thereof enlarged to rest upon the upper side of the arm, whereby said saddle is adapted for adjustment longitudinally of the slot, and means carried by the shank at its lower end for engaging the arm to lock the saddle in adjusted position along the slot.

2. A device of the character described comprising a standard, means for supporting the standard in vertical position and for both vertical and horizontal movement, spring means urging said standard upward, a stop carried by the standard and adapted to engage the supporting means for limiting the downward movement of the standard, an arm swingingly supported upon the standard adjacent to the upper end of the latter and having a longitudinal slot therein, a saddle having a shank arranged with the lower portion thereof extending through said slot and the upper portion thereof enlarged to rest upon the upper side of the arm, whereby said saddle is adapted for adjustment longitudinally of the slot, and means carried by the shank at its lower end for engaging the arm to lock the saddle in adjusted position along the slot.

ARTHUR J. PALIN,