

(No Model.)

J. A. McGARRY.  
DEVICE FOR HANDLING LUMBER.

No. 601,043.

Patented Mar. 22, 1898.

Fig. 1.

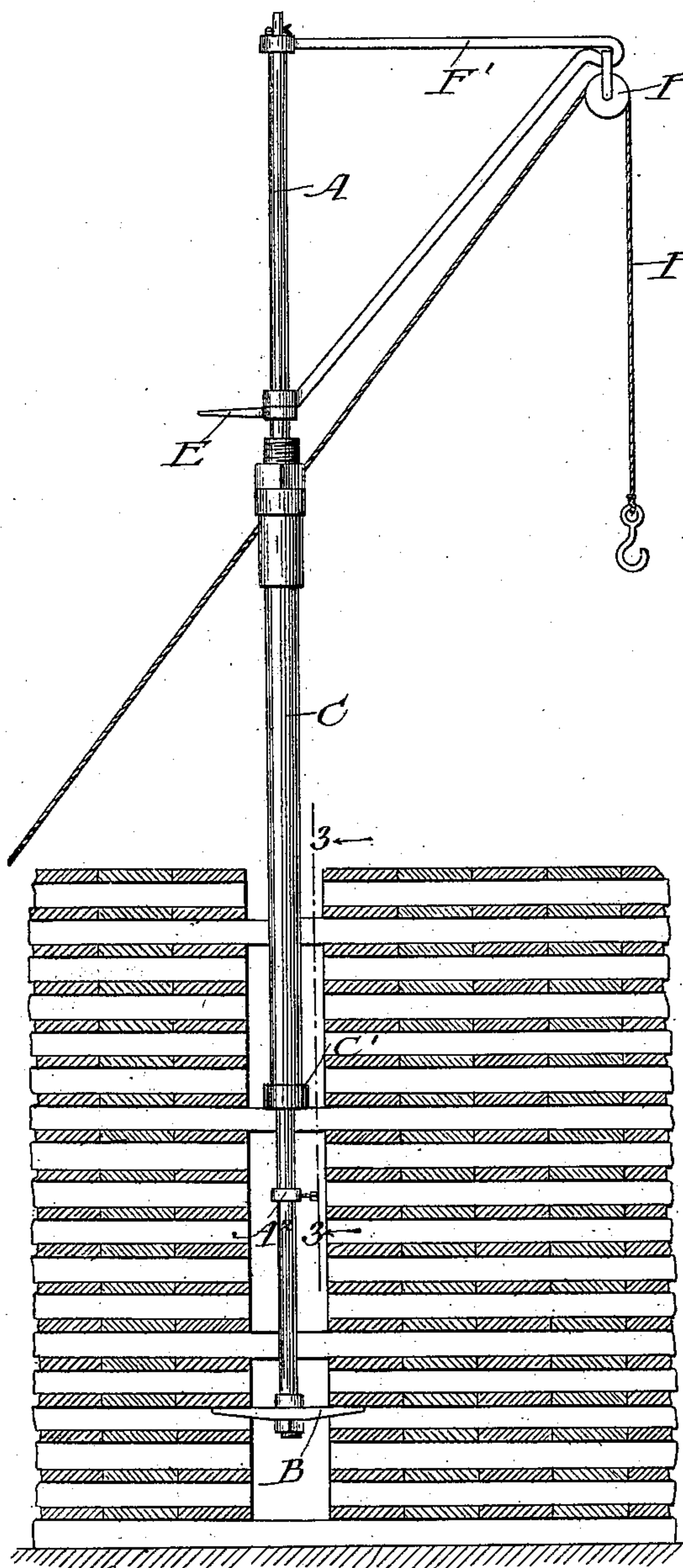


Fig. 2.

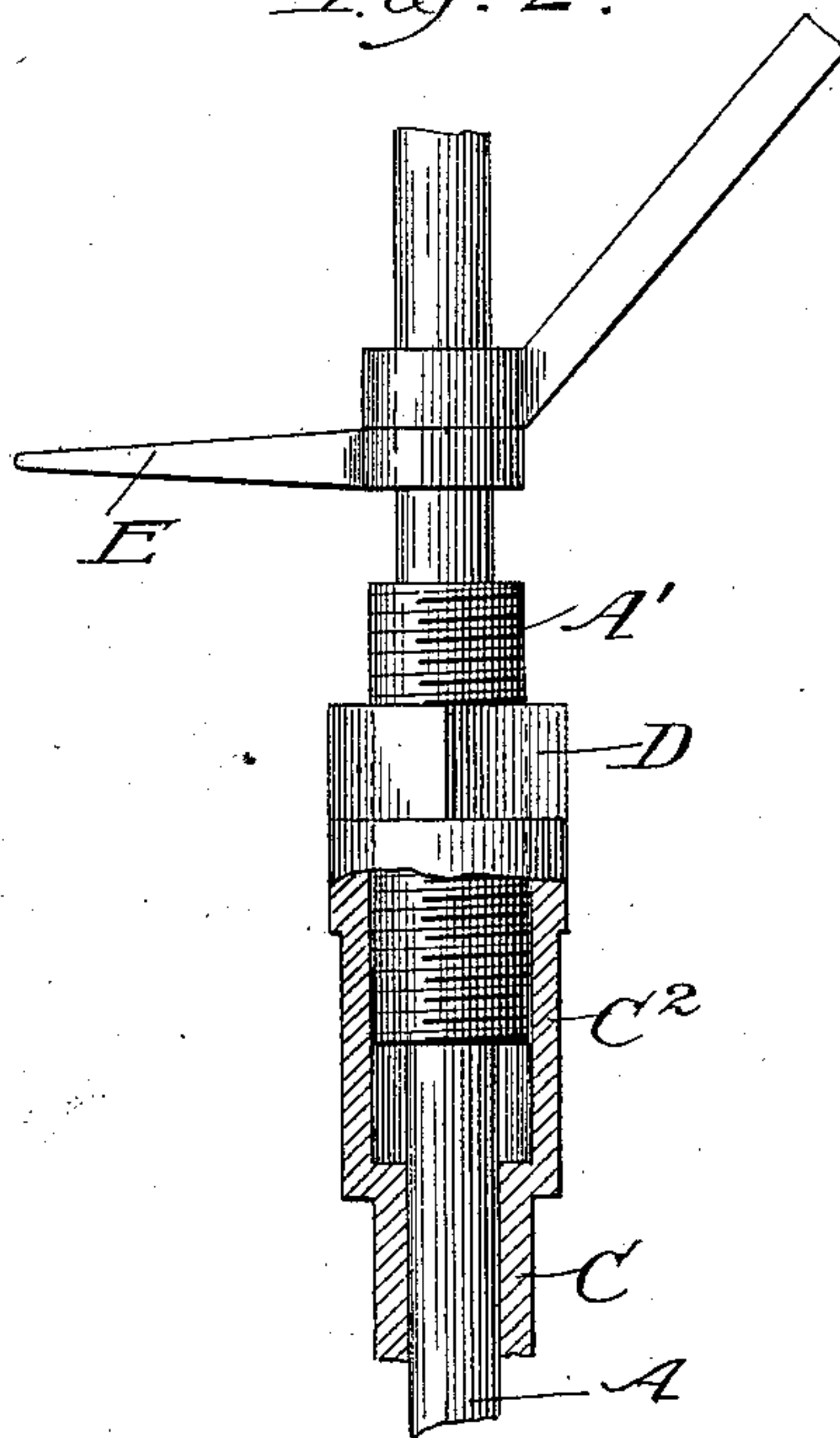
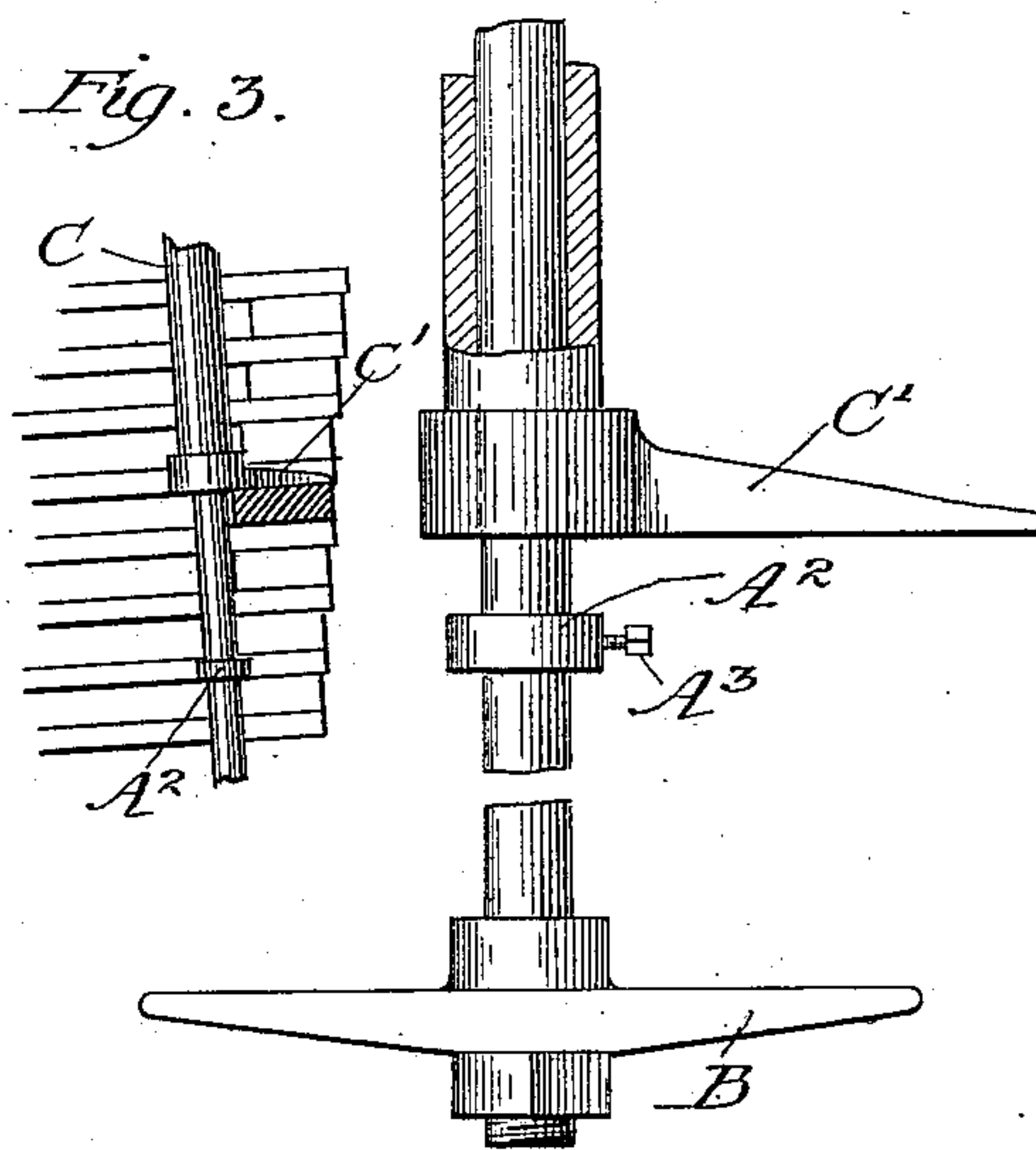


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## DEVICE FOR HANDLING LUMBER.

SPECIFICATION forming part of Letters Patent No. 601,043, dated March 22, 1898.

Application filed June 12, 1897. Serial No. 640,471. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. MCGARRY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Device for Handling Lumber, of which the following is a specification.

My invention relates to a device for handling lumber and the like, and has for its object to provide a new and improved device for this purpose, of which the following is a description, reference being had to the accompanying drawings, wherein—

Figure 1 is a view showing a device embodying my invention attached to a pile of lumber. Fig. 2 is an enlarged view, in part section, of the device shown in Fig. 1, some of the parts being omitted. Fig. 3 is a section on line 3 3 of Fig. 1 with parts omitted.

Like letters refer to like parts throughout the several figures.

As illustrated in the drawings, the hoisting device is provided with a rod or the like A, which supports the remaining parts. At the lower end of the rod A is a cross-piece or foot B, adapted to engage some part of the pile of lumber. The rod A is formed with a screw-thread A', extending over a part of its length. This screw-thread may be formed in any desired manner.

As illustrated in the drawings, the screw-thread is formed upon an enlarged part, which is rigidly fastened to the rod A in any convenient manner. A sleeve C surrounds the rod A and is provided at its lower end with the projection or foot C', adapted to engage the pile of lumber. A stop A<sup>2</sup> is attached to the rod A and is adapted to be rigidly fastened thereto by the set-screw A<sup>3</sup>. This stop limits the downward movement of the sleeve C. The upper end of the sleeve C is enlarged at C<sup>2</sup>, so as to allow it to move along the enlarged screw-threaded part A'. A nut D works upon the screw-threaded part A' and is adapted to engage the sleeve C and force it downwardly, so as to move the cross-piece B and projection C' toward each other in order that they may be clamped to the pile of lumber. An arm E is rigidly connected with the rod A and is adapted to be used in controlling and moving the device. A pulley or other suitable device F is connected with

the rod A in any desired manner, as by means of the crane F'. The material to be handled is connected with a suitable power-transmitting device F<sup>2</sup>, which runs over the pulley F. The crane F' may be of any suitable construction. As shown in the drawings, this crane consists of a single piece movably connected with the rod A, so that its position may be varied.

I have described the several parts of my device in detail; but it is of course evident that these several parts may be varied in form, construction, and arrangement without departing from the spirit of my invention, and I therefore do not wish to be limited to the construction shown.

The use and operation of my invention are as follows: In the handling of lumber it is often desirable to pile the lumber in high piles. This necessitates some mechanical device for handling the lumber. When my device is used, the lumber is piled in the ordinary way, leaving a space or chimney in the middle for the circulation of the air. The handling device is inserted in this space some distance from the end of the pile and is clamped in position. In fastening my device to the pile one end is lowered into the space at the center of the pile, with the cross-piece B substantially parallel with said space. When the device has been lowered to a sufficient depth, the rod A is rotated by means of the handle E or in any other convenient manner, so as to bring the cross-piece B substantially at right angles to the space in the pile, as shown, for example, in Fig. 1. The foot C is then substantially parallel with the space in the pile and is moved to a position where it engages one of the cross-pieces extending across this space. The nut D is now tightened by a suitable wrench, thus forcing the cross-piece B and the foot C' toward each other, so that they will grip or clamp the parts to which they are opposed and hold the device in position. After the nut D has been sufficiently tightened the device will be held in an upright position by the engagement of the cross-piece B and the foot C' with the parts with which they are in contact. The lumber may then be hoisted by means of the pulley F and piled upon the pile until the nut D is reached. Said nut is then loosened and



the rod A rotated, so as to free the parts B and C' from the pile. The device is then lifted upwardly and again fastened in position, with the foot C' at the top of the pile. In removing  
 5 the lumber from the pile it will of course be understood that the manipulation of the device will be opposite to that just described, or, in other words, that the device will be lowered into the space between the pile until the  
 10 nut D is near the top of the pile before being attached thereto, the lumber being then removed until the foot C' is reached. It will be seen that by this construction I have a device which may be attached to the pile of lum-  
 15 ber between its outer boundaries, so that the operator can pass completely around the device and can manipulate it without danger of falling from the pile. It will also be seen that the construction of my device allows it  
 20 to be easily and quickly changed in position as the lumber is piled upon or removed from the pile, so that piles of any desired height may be made or removed. When the device is in position, the foot C' is at an angle to the  
 25 foot or cross-piece B, and hence the parts cannot work loose, but the device will be firmly clamped in position. It will therefore be seen that all danger of the device being pulled from the pile during use is obviated. The  
 30 tube C and associated parts allow the device to be easily and quickly attached to and detached from the pile of lumber.

I claim—

1. A device for handling lumber or the like  
 35 comprising a supporting-piece provided near one end with a projecting arm rigidly connected thereto and adapted to engage a portion of the lumber when piled, a second arm connected with a part free to move longitudinally along said rod and a controlling de-  
 40 vice for controlling the position of the longitudinally-movable part.

2. A device for handling lumber or the like, comprising a crane, a support upon which  
 45 said crane is movably mounted, an arm connected to the bottom of said support, a second arm free from said support, but associated therewith, so as to be free to be moved longitudinally therealong, an actuating de-  
 50 vice for forcing said arms toward each other, said actuating device so positioned as to limit the longitudinal movement of the movable arm, whereby the support may be clamped to the pile of lumber so that it will be con-  
 55 tained within the outer boundaries of the pile.

3. A device for handling lumber adapted to be removably fastened to a lumber-pile provided with a space or flue near its center and comprising a crane, a supporting-rod  
 60 therefor provided near one end with an arm rigidly connected thereto said arm adapted to be lowered into said space or flue and then

moved to a position where it engages one of the boards of the pile, a second engaging arm connected with said rod so as to be free to  
 65 move longitudinally therealong, a controlling device for forcing the two arms together the whole so constructed that the device may be attached to the pile of lumber within its outer boundaries.

4. A device for handling lumber comprising a rod provided at one end with an engaging arm, a longitudinally-movable arm connected with said rod and normally free to  
 75 move therealong and a controlling device for said longitudinally-movable arm movable with relation to said arm and said rod and a crane connected with said rod so as to be supported thereby.

5. A device for handling lumber or the like, 80 comprising a crane, a support for said crane provided at one end with an engaging arm, a sleeve surrounding said support and provided with an engaging arm, a screw-threaded portion on said support, a nut working on said  
 85 screw-threaded portion adapted to engage said sleeve so as to force the two arms together.

6. A device for handling lumber or the like comprising a supporting-piece, an arm con- 90 nected to said supporting-piece and adapted to engage a portion of the pile of lumber, a second arm connected with said supporting-piece and free therefrom so as to be moved therealong, stops for limiting the longitudinal  
 95 movement of said arm said latter arm being substantially at right angles to said first-mentioned arm when the device is in position.

7. A device for handling lumber adapted to be removably fastened to the lumber-pile 100 provided with a space or flue near its center, and comprising a support provided near one end with a cross-piece adapted to engage portions of the lumber-pile on each side of said  
 105 space, a projecting part or foot movably connected with said support and adapted to engage a cross-piece extending across said space or flue so that the foot and cross-piece will be at an angle to each other, and means for fore-  
 110 ing said foot and cross-piece toward each other, so as to clamp them in position.

8. A device for handling lumber comprising a supporting-piece, provided with an engaging part for engaging the pile of lumber, a sleeve surrounding said supporting-piece 115 and also provided with an engaging part, said sleeve free from said rod so that it can be moved longitudinally therealong and means associated with said parts whereby they may be moved relatively.

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