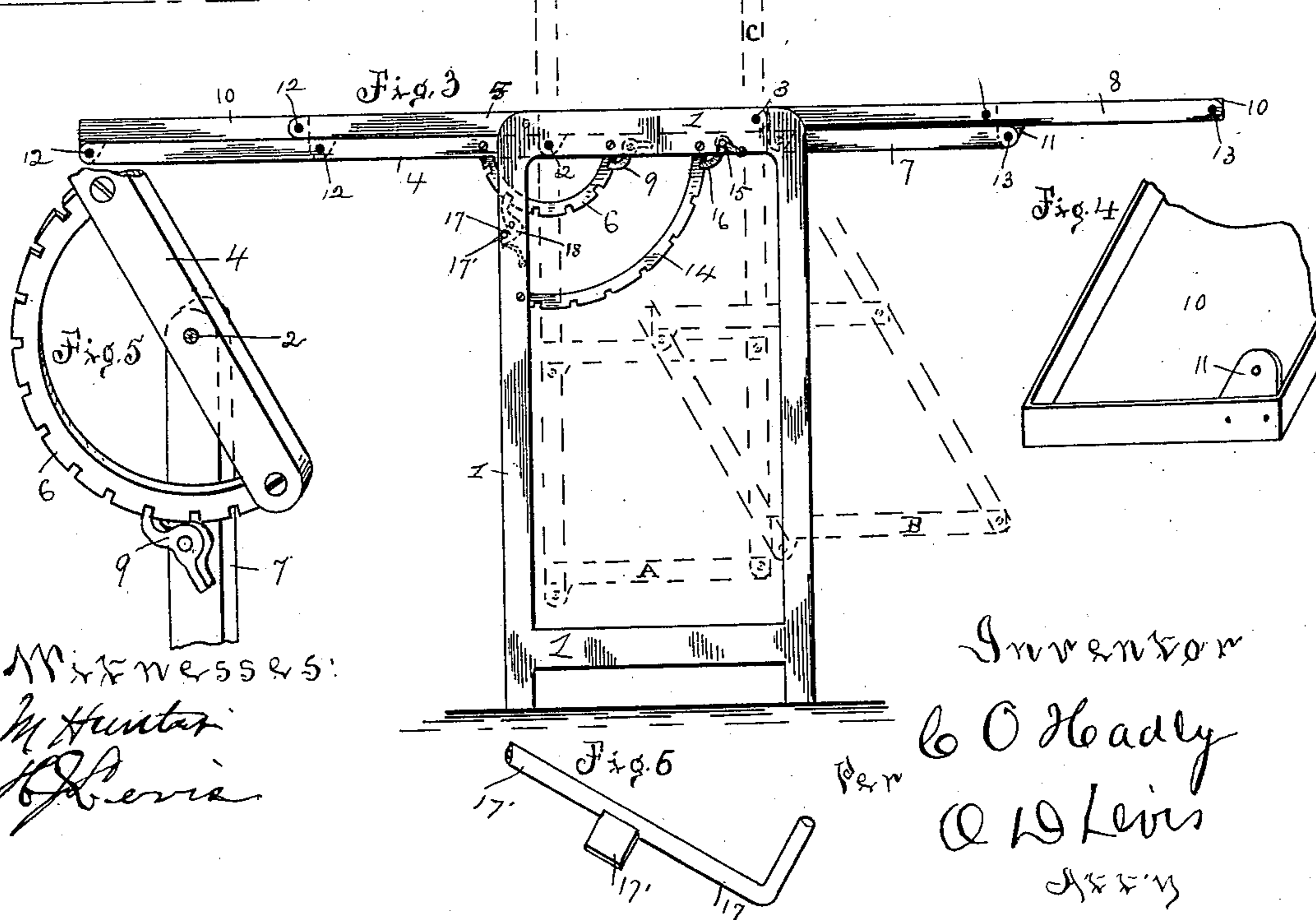
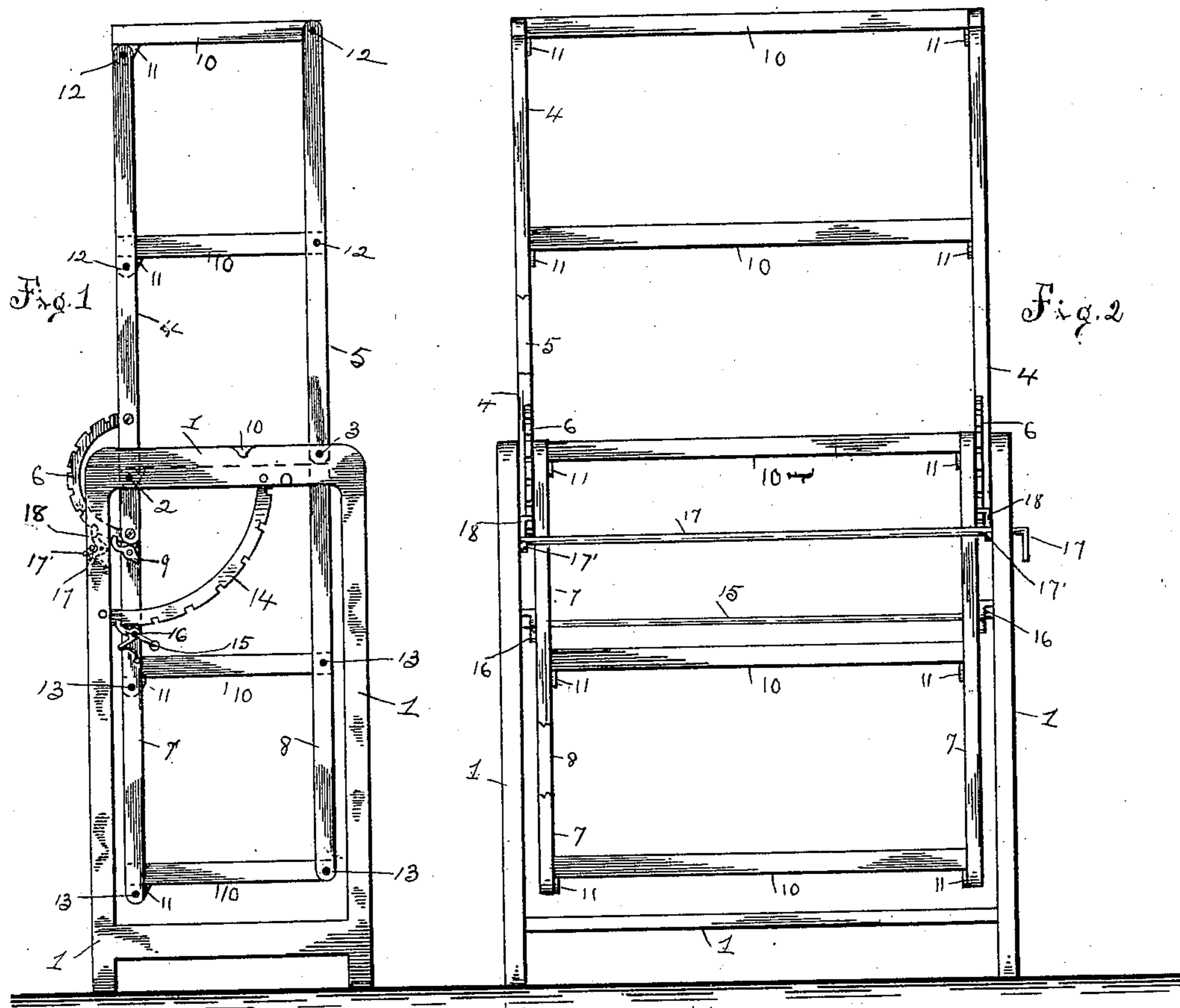


(No Model.)

C. O. HADLY.
COMBINED SHELF AND TABLE.

No. 602,321.

Patented Apr. 12, 1898.



WITNESSES:
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UNITED STATES PATENT OFFICE.

CHARLES O. HADLY, OF McKEESPORT, PENNSYLVANIA.

COMBINED SHELF AND TABLE.

SPECIFICATION forming part of Letters Patent No. 602,321, dated April 12, 1898.

Application filed August 2, 1897. Serial No. 646,726. (No model.)

To all whom it may concern:

Be it known that I, CHARLES O. HADLY, a citizen of the United States, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in a Combined Shelf and Table; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in combined shelves and tables, and has for its object the construction of a device of this class that may easily and quickly be transformed from a series of shelves into a table, or vice versa.

Another object is to construct the device in such manner that one-half the number of shelves employed may be converted into a table and the remaining series of shelves be extended at an angle or arranged vertically one above the other.

Other new and novel features are embodied in my improvement, as will be hereinafter more specifically described in detail.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like letters and numerals designate like parts throughout the several views, in which—

Figure 1 is an end elevation of the device having the shelves arranged one above the other. Fig. 2 is a rear elevation of the same. Fig. 3 is a side elevation of the device converted into a table and also showing by dotted lines the different positions which the device is capable of assuming. Fig. 4 is a perspective view of a portion of one of the shelves. Fig. 5 shows a portion of one of the shelf-supporting bars and means for holding the same in various positions. Fig. 6 is a perspective view of a portion of the rod at the rear of the device for operating the pawls.

In the device both ends are of the same construction. Therefore the description of the detail parts of both ends will be referred to by similar letters and numerals.

Referring to the drawings, the numerals 1 and 1' designate a suitable frame, which may be formed of wood or other suitable material. Pivoted upon the pins 2 and 3 at the inside and at each end of the said frame is a pair of vertical side bars 4 and 5. The bars 4 extend down a short distance below their pivoted points and have the semicircular rack 6 secured to them. Another pair of vertical side bars 7 and 8 are pivoted at their upper ends upon the aforesaid pins 2 and 3 and extend downwardly within the frame, and upon the bars 7 are secured the dogs 9, which engage with the semicircular rack 6, so as to hold the upper and lower bars rigid. A series of shelves 10, formed of sheet metal, with flanged sides and with a lug 11 secured at each end, are provided, two of which are pivotally arranged upon the pins 12, between the upper sets of vertical side bars, and two are pivotally arranged upon the pins 13, between the lower sets of vertical side bars, and the middle shelf, which remains stationary, is connected to the frame by the same pins 2 and 3 upon which the vertical side bars are pivoted. A quadrant rack 14 is attached to each side of the frame, and extending across from one of the lower vertical bars 7 to the other is the rod 15, which has suitable spring-actuated dogs or pawls 16 attached thereto and which engage with the quadrant racks of the frame, so as to rigidly hold the shelf arrangement in position. Another similar rod 17 extends across the frame at the rear end, and upon this bar are secured the tongues 17', which are adapted to engage with and operate the spring-actuated dogs 18, which are attached to the inner sides of the frame to engage with the semicircular rack 6.

When it is desired to convert the shelves from a vertical position, as shown in Figs. 1 and 2, into a table, as shown by the full lines in Fig. 3, the rods 15 and 17 are turned so as to disengage the dogs from the racks. The shelves are then tilted and brought into the form of the table and the rods released, so as to allow the dogs to engage with the racks and hold the device in position, and if it is desired the shelves may be made to extend out at an angle instead of being made into a table. If it is desired to form the upper series of shelves into a table and allow the

lower series to assume either of the positions shown by dotted lines A and B at Fig. 2, or convert the lower series into a table and cause the upper series to remain vertically, as indicated by c, the rods 15 and 17 are turned to disengage the dogs 16 and 18 and the dogs 9 released, and the vertical bars caused to assume the desired position.

Various changes in the detail parts of the device may be made without departing from the general spirit of my invention.

Having thus fully shown and described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a combined table and shelf, the combination of the stand, having pivoted thereto the upper and lower side bars, a series of shelves pivotally connected to said side bars and adapted to stand one above the other, means for converting the said series of shelves into a table and to extend them at angles one to the other, and pawls and racks for holding the said series of shelves in such positions, substantially as shown and described.

2. In a combined table and shelf, the combination of the stand, having pivoted thereto the upper and lower side bars, a series of

shelves pivotally connected to the said upper and lower side bars, a pawl and rack for holding the upper and lower series of shelves at various angles one to the other, a quadrant rack mounted on the stand and a pawl secured to the lower side bars and adapted to engage with the said quadrant rack, substantially as shown and described.

3. A combined table and shelves consisting of the frame having pivotally connected thereto, the upper and lower side bars, shelves pivotally connected to said side bars, one of said upper side bars being provided with a rack, and one of the said lower side bars being provided with a pawl adapted to engage with the said rack, means for releasing said pawl, a quadrant rack on the stand and a pawl secured to the lower side bars and adapted to engage with the said quadrant rack, substantially as shown and described.

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

CHARLES O. HADLY.

Witnesses:

P. B. REILLY,
JOHN WALKER.