

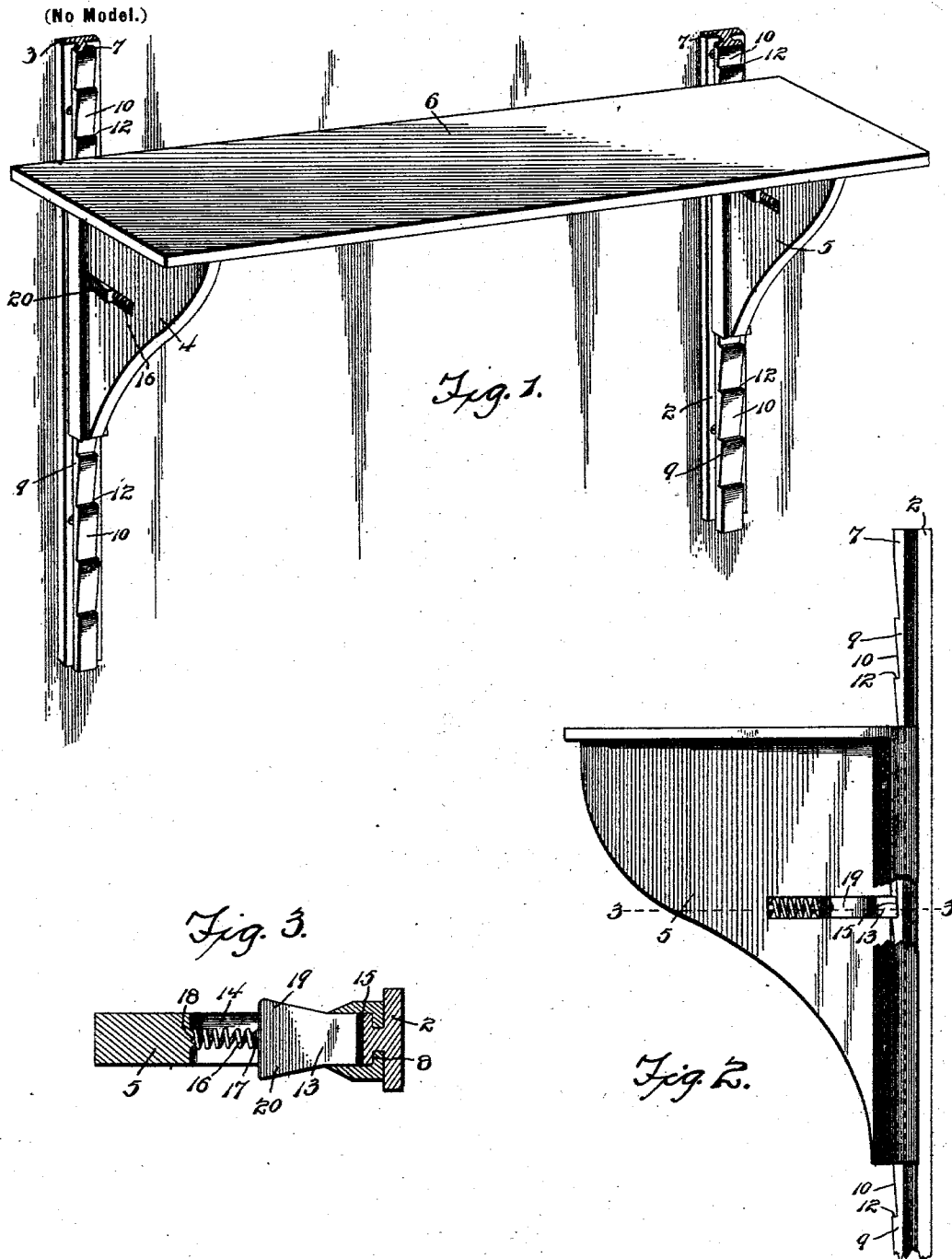
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W. H. NEWLEE.

SHELF BRACKET AND SUPPORT THEREFOR.

(Application filed Jan. 26, 1899.)



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. NEWLEE, OF PULASKI CITY, VIRGINIA.

SHELF-BRACKET AND SUPPORT THEREFOR.

SPECIFICATION forming part of Letters Patent No. 634,091, dated October 3, 1899.

Application filed January 26, 1899. Serial No. 703,472. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. NEWLEE, a citizen of the United States, residing at Pulaski City, in the county of Pulaski and State of Virginia, have invented a new and useful Shelf-Bracket and Support Therefor, of which the following is a specification.

This invention relates to shelf-brackets and supporting means therefor; and the object of the invention is to provide simple and efficient elements of the character specified and in connection therewith means for locking and holding a bracket or brackets in an adjusted or desired position and which are so operated as to instantly permit the elevation or lowering of one or both of the brackets to thereby regulate the height of a shelf or like part secured to the upper sides of said brackets.

In practice I provide two supports or side bars and connect the same in some suitable manner with the wall or other place of a compartment, and said supports or side bars are provided with projecting beads or tongues extending substantially the length thereof and which are preferably T-shaped in cross-section, and the outer and widened faces of these beads or tongues are provided with teeth, thereby forming racks, and the spaces between the teeth are beveled upwardly and outwardly, and in connection with the supports or side bars I provide a pair of brackets, the brackets having T-shaped grooves to fit over and slide vertically upon the similarly-shaped tongues on the side bars, and said brackets carry spring-actuated pawls, extending, preferably, entirely across the wide portion of the grooves and adapted to rest upon the upper flat sides of the rack-teeth, the width of the teeth corresponding with that of said pawls, whereby a wide bearing is provided to insure holding the brackets in a stable position.

With these ends in view the invention consists in the novel combination of elements and in the construction and arrangement of parts, which will be hereinafter fully described and claimed.

To enable others to understand the invention, I have illustrated the preferred embodiment thereof in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of a pair of

the side bars or supports, the brackets thereon, and a shelf resting upon and secured to the upper sides of the brackets. Fig. 2 is a side elevation of a portion of one of the side bars and the bracket thereon and with a fragment of said bracket removed to indicate the manner in which the pawl rests upon a tooth of the rack. Fig. 3 is a sectional plan view, the section being taken on the line 3 3, Fig. 2.

Similar characters denote like and corresponding parts in each of the several figures of the drawings.

In the drawings I have represented two supports or side bars 2 and 3, provided, respectively, with brackets 4 and 5, and to the upper side of said brackets the shelf 6 is secured, the side bars and brackets being each usually cast in one piece, while the shelf 6 is ordinarily of wood, and the said side bars will be fastened by screws or otherwise to the wall or other place of a building. In Figs. 2 and 3 I have illustrated in detail one of the side bars, the bracket thereon, and the cooperating parts, and will now proceed to describe the same in detail, employing similar characters with prime-marks to indicate corresponding parts in the side bar 3 and bracket 5.

The side bar 2 is provided longitudinally thereof with the elongated bead or tongue 7, which is adapted to fit within the correspondingly-shaped groove or channel 8, formed depthwise on the inner side of the bracket 4, and said bracket is adapted to fit against the support therefor, and this, in connection with the T-shaped tongue and groove, serves to positively hold the bracket in proper position. The bead or tongue 7 is provided with the teeth 9, which may extend from end to end thereof and which are beveled, as at 10, upon their outer faces, the upper flat edges 12 of said teeth being adapted to receive a pawl or other analogous device carried by the bracket for sustaining the latter in a fixed position, and it will be evident upon an inspection of Fig. 3 that the teeth extend entirely across the wide face of said tongue.

The device employed for locking the shelf in the adjusted position is represented as a spring-actuated dog or pawl 13, slidingly fitted in the transverse aperture 14, extending into the groove or channel 8, and the width of the pawl is substantially equal to the wider

portion of said groove, and consequently of the tongue 7, so that when the pawl rests upon the upper flat side of a tooth a wide bearing engagement is had between the two parts.

5 Upon an inspection of Fig. 3 it will be seen that the outer face of the pawl is beveled, as at 15, in a direction corresponding with the inclination of the teeth 9, by reason of which the said pawl can be thrust backward farther
10 into the aperture 14 when upward pressure is applied to the bracket. For thrusting said pawl over a tooth and in engagement with the upper flat face 12 thereof I prefer to provide a coiled spring, as 16, which fits over
15 the projections 17 and 18 on the pawl and bracket, respectively, the faces of said projections being somewhat tapered to facilitate the introduction of the spring.

The pawl 13 slides between the upper and
20 lower walls of the aperture 14, which is shown as horizontal, and said pawl is provided with the thumb-pieces or wings 19 and 20, which extend outward from the opposite faces or sides of the bracket, so as to be within easy
25 reach. To raise the bracket, it will be simply necessary to apply an upward pressure thereto, and when said bracket has reached its proper position the spring will thrust the pawl outward and over and into engagement
30 with the upper face of a tooth, thereby to firmly lock the bracket in the desired position, and the same operation will be repeated with respect to the bracket 5. To lower the bracket, the wings 19 and 20 will be pressed
35 rearward by the fingers, so as to carry the pawl out of contact with a tooth, at which time said bracket can be easily lowered, and when in the desired location the pawl will be released and be shot forward by the relaxing
40 coiled spring 16.

Changes in the form, proportion, size, and the minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrific-
45 ing any of the advantages of this invention.

Having thus described the invention, what I claim is—

1. The combination with a side bar having a T-shaped tongue provided with teeth ex-

tending entirely across the wider portion 50 thereof, a bracket having a T-shaped groove adapted to receive said tongue, and having an aperture transverse to the tongue, a pawl fitted for sliding movement between the upper and lower walls of the aperture, the width 55 of the working portion of the pawl being substantially the same as the tongue and groove at their wider parts, and a spring for actuating the pawl, substantially as described. 60

2. The combination with a side bar having a T-shaped tongue provided with beveled teeth, a bracket having a T-shaped groove to receive said tongue and adapted to slide against said side bar, and said bracket hav- 65 ing an aperture transverse to the tongue, a pawl supported for sliding movement between the upper and lower walls of the aperture and having wings which extend outward from the opposite faces of said bracket, and the work- 70 ing portion of the pawl being of substantially the same width as the widest portion of said tongue and groove, and a spring acting against the pawl, substantially as described.

3. The combination with a side bar having 75 a T-shaped tongue provided with beveled teeth, of a bracket having a similarly-shaped groove adapted to receive said tongue, and the latter having beveled teeth, and said bracket having a slot transverse to the tongue, 80 a pawl fitted between the upper and lower walls of said aperture, the working end of said pawl being beveled in the same direction as said teeth and being of substantially the same width thereof, and said pawl having 85 portions extending outward from the opposite faces of the bracket, projections on the pawl and shelf respectively, and a coiled spring the ends of which fit over said projections, substantially as described. 90

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WM. H. NEWLEE.

Witnesses:

JOHN H. SIGGERS,
HAROLD H. SIMMS.