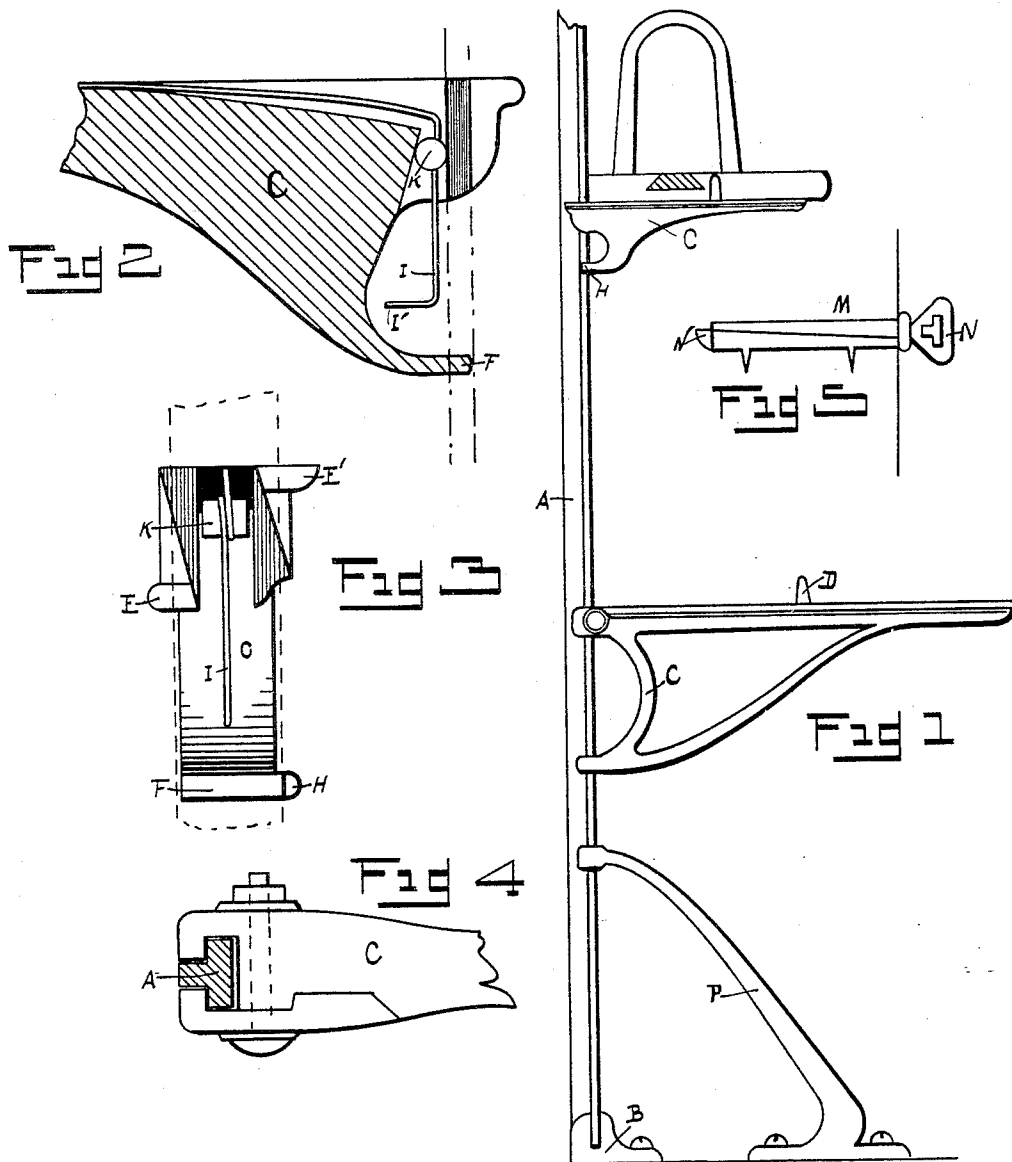


(No Model.)

T. F. MARK.
BRACKET FOR ADJUSTABLE SHELVING.

No. 460,782.

Patented Oct. 6, 1891.



WITNESSES:

J. L. Black.
Frank Chrysler.

INVENTOR

Thomas F. Mark

BY

W. M. Sues.
ATTORNEY.

UNITED STATES PATENT OFFICE.

THOMAS F. MARK, OF FREMONT, NEBRASKA.

BRACKET FOR ADJUSTABLE SHELVING.

SPECIFICATION forming part of Letters Patent No. 460,782, dated October 6, 1891.

Application filed April 28, 1891. Serial No. 390,779. (No model.)

To all whom it may concern:

Be it known that I, THOMAS F. MARK, of Fremont, in the county of Dodge and State of Nebraska, have invented certain useful Improvements in Portable and Adjustable Shelving; and I do hereby declare that the following is 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, which form a part of this specification.

This invention relates to a new and novel improvement in portable and adjustable shelving, to be used in stores, warerooms, and libraries.

The object of this invention is to provide a portable shelving that shall be provided with a bracket, and that shall be detachable, simple of construction, and readily adjustable; and in furtherance of this object the invention consists in the construction, combination, and arrangement of parts, as hereinafter more fully described, and finally pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 represents a side elevation of the supporting-standard with brackets attached. Fig. 2 is a partly broken sectional view of one of the brackets. Fig. 3 shows a rear view of the detachable brackets. Fig. 4 shows the method of clamping the counter shelf; and Fig. 5 illustrates a top view of the wall-anchors, as used in supporting the standard, as will be described more fully hereinafter.

A in the drawings represents a T-shaped supporting-standard, preferably of steel and of any suitable length, which is securely but detachably held at the lower end within a shoe B. This shoe is preferably of iron and screwed to the flooring where the standards are positioned and provided with three projecting lips adapted to snugly accommodate and retain the T-shaped standard, as shown in Fig. 1.

The standards A are used in sets and provided with any desirable number of brackets C. These brackets are cast and of any suitable metal. The top edge of these brackets is flat and provided with a suitable retaining-lug D, adapted to work within an opening of

the shelf-board, and thus secures the board in proper position. At the rear the brackets are provided with a clutching-stock adapted to hold and clasp the T-shaped supporting-standard, as shown in Fig. 1. In the rear the clutching-stock is open but provided with two projecting jaws E E', one upon each side, and projecting one at the top the other at the bottom beyond the jaw-opening, so as to hold and clasp the supporting-rod. The entrance to the jaw-opening is placed at an angle, so that when the stock has been righted the jaws overlap and clasp the bar upon which they have been placed, as shown in dotted line in Fig. 3. Below is provided the curved shoe F, which extends so that it will ride against the web of the standard, as shown. At the lower end this shoe has a toe H, which extends beyond the shoe and rides against one side of the web, as illustrated.

I represents a wire, of any suitable spring material, which is embedded within the horizontal recess and provided at a suitable point with a small metallic roller K, either smooth, corrugated, or toothed, which readily revolves about a coil of the wire I. This wire terminates at the lower end in a thumb-piece I', by means of which it is operated. Being of spring metal the wire, as well as the connected roll, is vertically adjustable, so that the roll will be positioned either higher or lower, according to the thickness of the bar upon which the stock is mounted.

The operation of my device is as follows: When it is desired to adjust one of the brackets, the jaw-stock is carried at an angle, so that the web of the standard, which is always in front, enters the keyway, readily passing between the angular jaws E E' until the web abuts against the rear walls of said jaws, when the stock is brought into its proper and perpendicular position, the jaw E clamping the web below, the one marked E' above a line passing through the center of the roll K, the toe H in this position riding against its side of the web and thus forming a lock, so that the bracket is securely clutched. The bracket cannot be removed or detached before the toe H has been forced outward, so as to escape the web. During the adjustment of the bracket the spring-wire I and the con-

nected roll K have been forced downward by
 means of the thumb-piece I', so as to permit
 the entry of the web. When this has been
 accomplished, the spring I is permitted to es-
 5 cape, by which means the roll K is impinged
 within the wedge-shaped recess formed by
 the angular wall and the face of the web, and
 thus securely binds and wedges the bracket
 to the standard. The weight of the brackets
 10 aids in binding the roll, which forces the jaws
 E E' against the rear of the web, and thus
 fixes the bracket. When it is desired to ad-
 just the bracket higher or lower, it is simply
 necessary to force the roll out of the wedge
 15 by means of the thumb-piece I', when the
 bracket may be readily moved. In retain-
 ing the standard at the upper end I employ
 the anchor M, comprising a hollow cylindrical
 stock cut wedge-shaped into two sections and
 20 provided with a suitable number of spurs.
 Within this stock is held the key N, the head
 of which forms a stirrup for the standard, as
 will be understood by referring to Fig. 5. In
 the rear the key is provided with a lug N'.
 25 When the anchor is to be secured, the lower sec-
 tion is embedded within an opening of the wall
 and the upper section driven into the opening
 while being guided upon the lower section.
 In attaching the shelves in small sections in-
 30 dependent of a wall I use the bracket P,
 which clasps the web of the standard and is
 secured by means of suitable screws. If de-
 sired, the lower counter shelf, which is al-
 ways the largest and heaviest, may be at-
 35 tached by having one of its jaws separate
 and attached by means of a bolt, as shown
 in Fig. 4.

The device is noticeable because of its ex-
 treme simplicity, the whole being entirely
 40 portable and readily adjusted; and,

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

1. In a portable and adjustable shelf, a
 45 bracket provided with a suitable jaw-stock,
 said jaw-stock being horizontally and verti-
 cally recessed and provided with two triangu-

lar jaws and a curved shoe and a spring-actu-
 ated roll within said vertical recess, in com-
 bination with a T-shaped supporting-stand- 50
 ard, said jaws and shoe being adapted to de-
 tachably clutch said standard, substantially
 as shown, and for the purpose set forth.

2. In a portable and adjustable shelf, a
 bracket adapted to be detachably and ad- 55
 justably held upon a T-shaped supporting-
 standard, said bracket being provided with
 a vertically and horizontally recessed jaw-
 stock, a keyway leading into said vertical re-
 cess at an angle, so as to divide said stock 60
 into an upper and lower clasp-jaw, a shoe
 having a locking-toe adapted to ride against
 the web of the standard, and a spring-actuated
 roll adapted to work within said vertical re-
 cess and against the web of the supporting- 65
 standard; all of said working effects being
 arranged to operate substantially as shown,
 and for the purpose set forth.

3. In a portable and adjustable shelf, a
 bracket adapted to be detachably and ad- 70
 justably held upon a T-shaped supporting-
 standard, said bracket being provided with a
 vertically and horizontally recessed jaw-
 stock, a keyway leading into said vertical re-
 cess at an angle, so as to divide said stock 75
 into an upper and lower clasp-jaw, a shoe
 having a locking-toe adapted to ride against
 the web of the standard, a spurred anchor
 comprising two wedge-shaped hollow cylin-
 drical stocks, and a key within said anchor 80
 adapted to support the T-shaped standard,
 in combination with a spring-actuated roll
 adapted to work within said vertical recess
 and against the web of the supporting-stand- 85
 ard, all of said working effects being arranged
 to operate substantially as shown, and for the
 purpose set forth.

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

THOMAS F. MARK.

Witnesses:

G. W. SUES,
 F. D. MUIR.