J. B. O'CONNOR.

SHELVING.

APPLICATION FILED SEPT. 20, 1920.

1,418,324. Patented June 6, 1922.

Fig. 1.

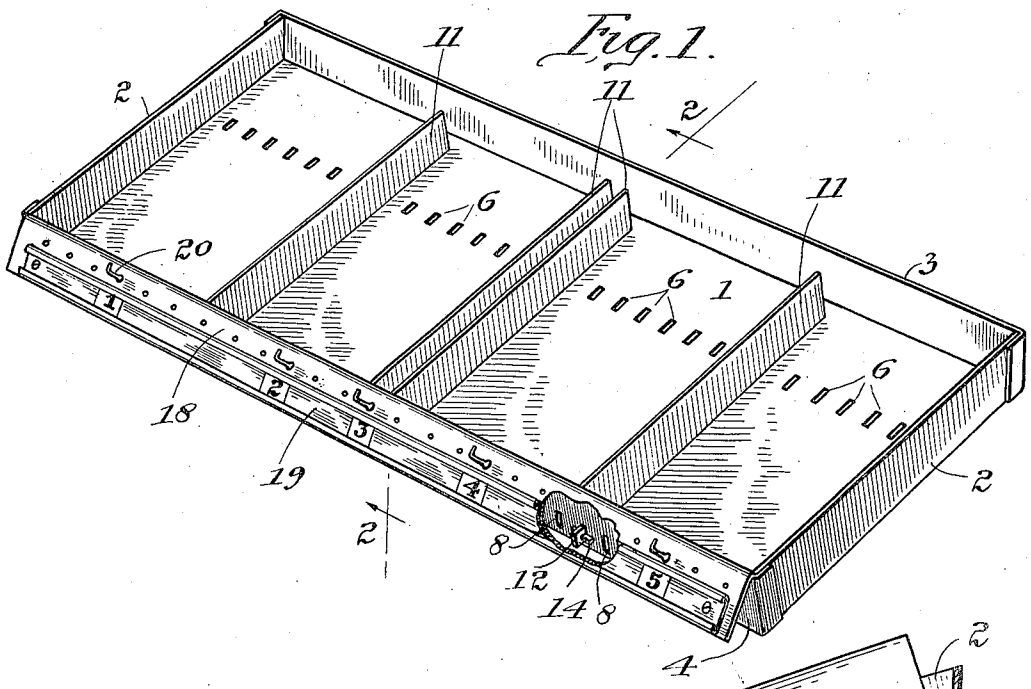


Fig. 2.

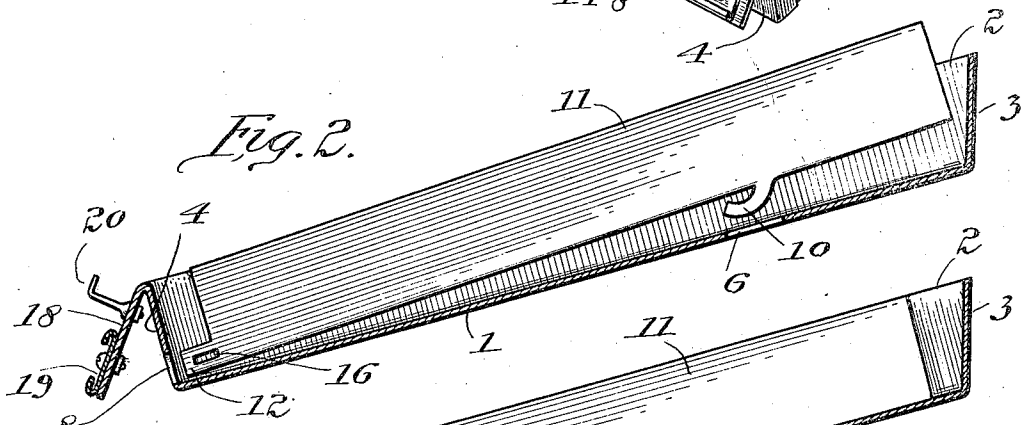


Fig. 3.

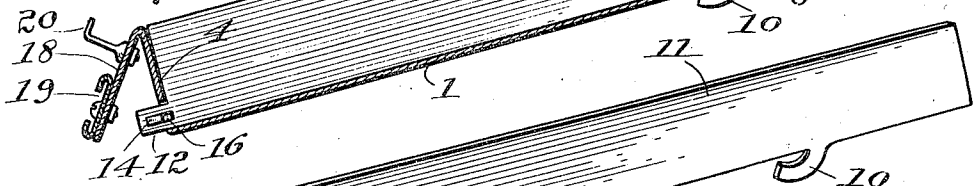


Fig. 4.



Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN B. O'CONNOR, OF AURORA, ILLINOIS, ASSIGNOR TO LYON METALLIC MANUFACTURING COMPANY, OF AURORA, ILLINOIS, A CORPORATION OF ILLINOIS.

SHELVING.

1,418,324. Specification of Letters Patent. Patented June 6, 1922.

Application filed September 20, 1920. Serial No. 411,437.

To all whom it may concern:

Be it known that I, JOHN B. O'CONNOR, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented a certain new and useful Improvement in Shelving, of which the following is a specification.

My invention relates to shelves and similar receptacles, especially those constructed of sheet metal, and one of the objects is to provide means for obtaining a tight divider—that is, to provide a simple construction by which removable dividers may be readily placed in different positions and tightly held there. Another object is to provide a simple form of protector for the fastening means located outside of the receptacle, at the front, for holding the divider in place. In this connection it is my purpose to so construct the protector that it will, at the same time, form a convenient label or check holder.

I obtain these objects by the construction shown in the accompanying drawings in which—

Figure 1 is a perspective view of the assembled device embodying the invention.

Figure 2 is a sectional view on the line 2—2, Figure 1, illustrating the manner in which the dividers may be inserted or withdrawn.

Figure 3 is similar to Figure 2, but shows the divider in final position.

Figure 4 is a perspective of a divider, and

Figure 5 is a perspective of the wedge key employed to tighten the divider in place.

Like numerals denote like parts throughout the several views.

In the form shown, the shelf or receptacle has a bottom 1, ends 2, 2, a back 3, and a front 4. By preference the ends, back and front are integral with the bottom. In the bottom are slots 6 spaced preferably at equal distances and far enough apart to afford the operator a wide choice as to the sizes of the compartments he will have. These slots extend crosswise—that is, from front to rear. The fronts 4 have upstanding slots 8, one in line with each of the slots 6. The slots 6 receive the lugs 10 of the dividers 11 and the slots 8 receive the tongues or extensions 12 of the dividers. The lugs 10 slant forward and downward thus forming a crotch or angle of less than 90 degrees, the crotch receiving or straddling the metal at the forward end of the slot 6 when the divider is in place. The means illustrated for drawing the dividers forward are the wedge keys 14 shown separately in Figure 5. They penetrate slots 16 formed in the tongues 12.

The shelf has a label holder 18 at the front in the form of an apron extending obliquely downward and forward from the upper edge of the front 4. It is preferably integral and may be provided with slip strip holders 19 and hooks 20, the latter for holding checks such for example as machinists use when withdrawing tools from a shop tool room. The apron thus serves a dual function, that of protecting the keys 14 and preventing them from accidentally becoming knocked loose; and that of conveniently exhibiting the checks or labels to the custodian or user.

In practice the dividers are inserted or withdrawn in the manner illustrated in Figure 2. When the key is forced firmly home the divider will usually abut the front 4 thus rigidly holding the front end of the divider. At the same time the lug 10 will be so far forward as to prevent any considerable upward movement of the rear end of the divider.

It will be understood that the shelf or receptacle may be either portable or fixed and that the ends and back may be of any desired height or may be omitted altogether.

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

1. A metallic shelf having an opening in the bottom, a divider having a lug extending obliquely downward and thus forming a crotch, the lug being adapted to pass down through said opening, and means for forcing the metal of the shelf into said crotch for wedgingly holding the divider.

2. A shelf having a slotted bottom and an upstanding front, a divider having a lug slanting downward and forward and adapted to penetrate the slot in the bottom of the shelf and means adapted to engage the shelf front for holding the lug in close contact with the shelf material at the end of the slot.

3. A sheet metal shelf having a slotted bottom and an upstanding front provided with a slot, a sheet metal divider having a lug adapted to penetrate the slot in the bottom of the shelf, a tongue at the front end of the divider adapted to penetrate the slot in the front of the shelf, said tongue also having a slot, and a wedge key adapted to en-

ter the slot in the tongue and abut the front of the shelf for drawing the bottom lug into close engagement with the shelf.

4. A sheet metal receptacle having a bottom and an upstanding front, the latter having a slot, a divider having an extension adapted to penetrate said slot, fastening means adapted to engage the extension outside of the receptacle, and an apron extending down in front of said fastening means for protecting and concealing the same, said apron depending from the upper portion of the receptacle front.

5. A sheet metal receptacle having a bottom and an upstanding front, the front having a slot, a divider having a slanting lug adapted to engage the receptacle bottom in the crotch of the lug, an extension on the divider adapted to penetrate the slot in the front of the receptacle, fastening means outside of the front of the receptacle adapted to engage the extension for holding the lug in close contact with the receptacle, and a label holder in the form of an apron depending from the upper portion of the receptacle front for shielding said fastening means.

In witness whereof, I have hereunto subscribed my name.

JOHN B. O'CONNOR.