E. A. GODDIN.

SHELF SUPPORT.

APPLICATION FILED MAR. 11, 1912.

1,115,465.

Patented Oct. 27, 1914.

2 SHEETS—SHEET 1.

Fig. 1.

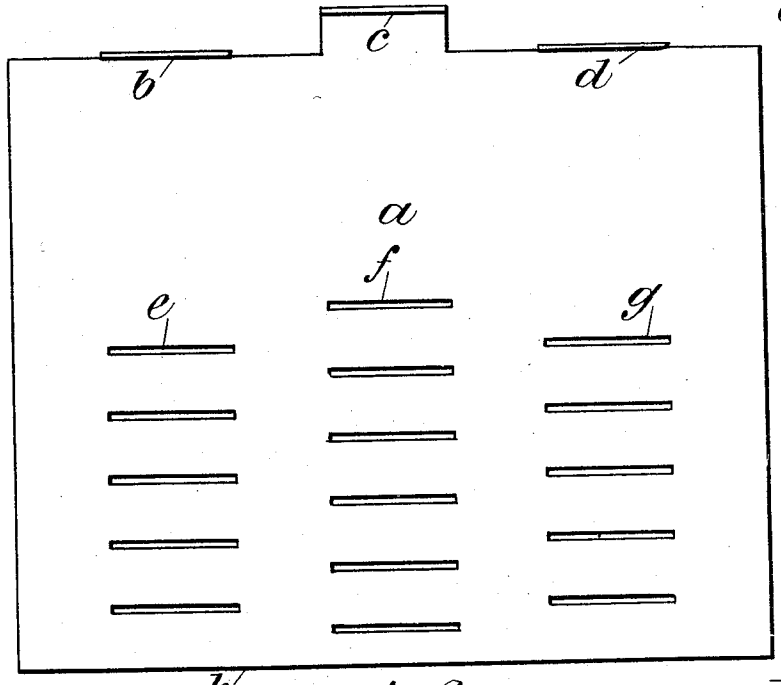


Fig. 2.

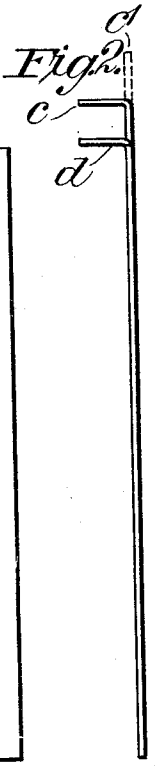


Fig. 3.

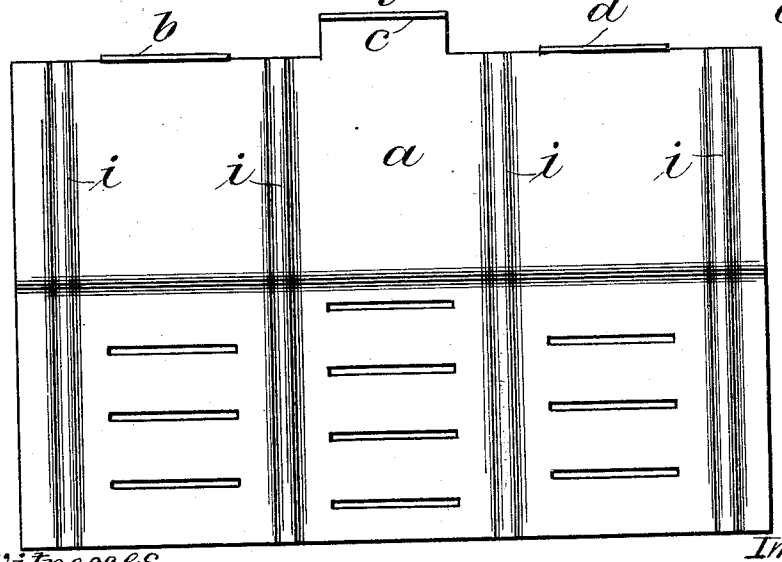


Fig. 4.



Witnesses.

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2 SHEETS—SHEET 2.

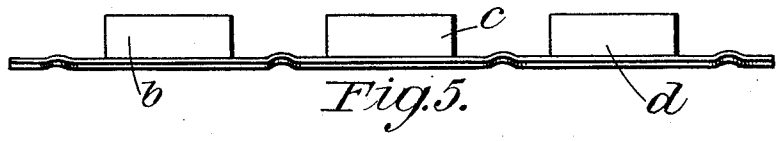


Fig. 5.

Fig. 6.

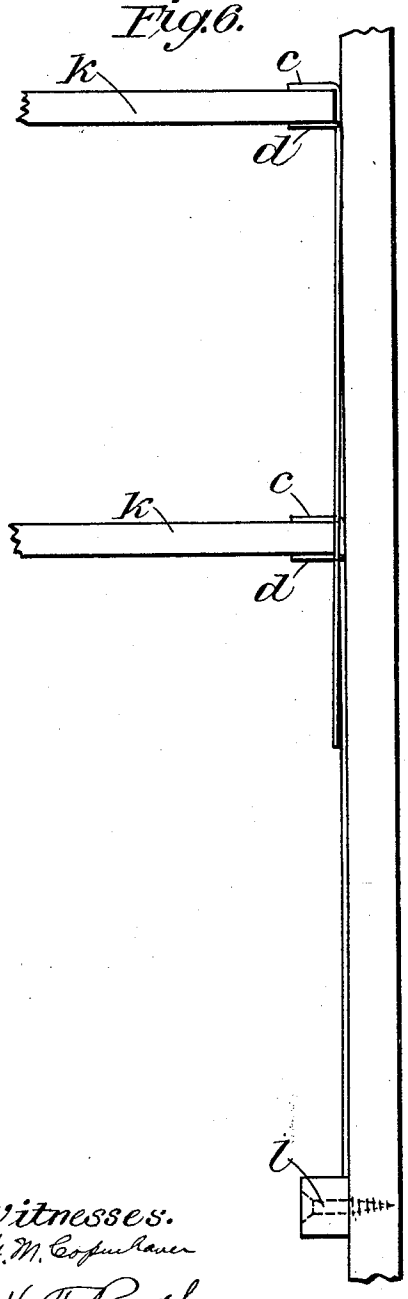
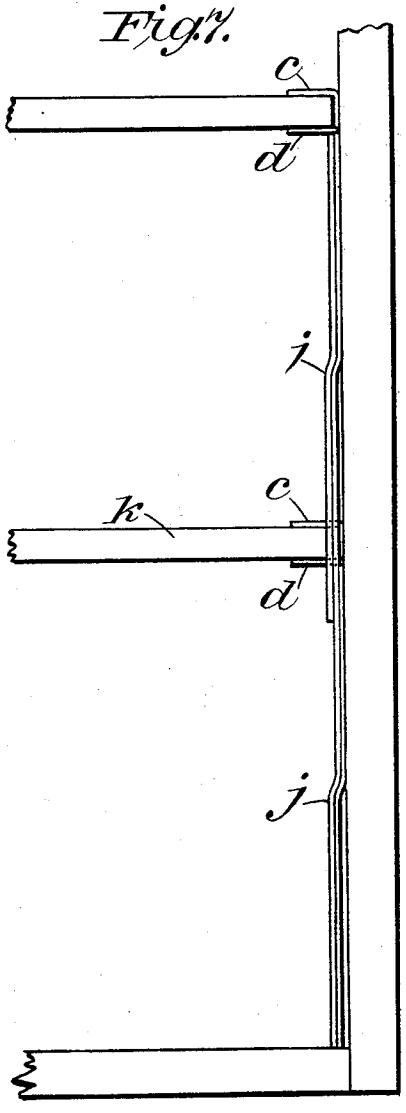


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

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SHELF-SUPPORT.

1,115,465. Specification of Letters Patent. Patented Oct. 27, 1914.

Application filed March 11, 1912. Serial No. 682,921.

To all whom it may concern:

Be it known that I, EDGAR ALFRED GODDIN, a subject of the King of England, residing at London, England, have invented certain new and useful Improvements in and Relating to Shelf-Supports, of which the following is a specification.

This invention relates to fittings adapted to support shelves in cabinets, frames, recesses or the like at varying distances apart, and has for its object the provision of a simple, economical and efficient means which may be readily fitted into the place adapted to receive the shelves.

In carrying out my invention I employ a fitting, bracket, or frame, (hereinafter deemed to be included in the term "fitting") preferably consisting of a piece of sheet material of rectangular or other suitable form, having one or more ledges or other projections (hereinafter deemed to be included in the term "ledges") extending therefrom at right angles, the said fitting having one or more series of slots or other openings (hereinafter deemed to be included in the term "slots") preferably beneath it or them. These fittings rest upon the bottom of the cabinet or other space to be occupied by the shelves or upon a suitable bracket or projection therein and are arranged one above the other, against the vertical or other sides thereof in such a manner that the ledges of the adjacent lower fitting will project through those slots of the one next above it which will enable the ledges of the upper fitting to support the shelf allotted to it at the right distance above the one next beneath it.

Preferably two or more shelf-supporting ledges are arranged side by side in the width of the fitting which is provided with a series of slots of equal width arranged beneath the said ledges, such vertical rows of slots being separated from each other by unpierced portions of the sheet material which are preferably provided with vertical corrugations to stiffen the fittings. The said fitting is also in some cases provided with one or more additional ledges slightly above those hereinbefore referred to, whose function is to prevent the shelf from being lifted off its supports and to help support the fitting above it. In this case a series of slots is also arranged vertically beneath each additional ledge so that the ledges of one fitting may be fitted into conveniently situated slots in the lower part of the one next above it.

I will now proceed to more particularly describe my invention with the aid of the accompanying drawings, in which:—

Figures 1 and 3 show different forms of my improved shelf support in front elevation. Figs. 2 and 4 illustrate the shelf supports shown in Figs. 1 and 3 respectively, in end elevation. Fig. 5 is an edge view of Fig. 3 looking from beneath. Fig. 6 is a part front elevation showing the application of the improved shelf supports illustrated in Figs. 1 and 2, to the vertical member of a cabinet, or the like, and Fig. 7 is a similar view showing the application of the improved shelf supports illustrated in Figs. 3 and 4.

According to the construction shown in Figs. 1, 2 and 6 a plate *a* of metal or other suitable material is provided with ledges *b c d* projecting at right angles thereto. Beneath each of the parts *b c d* is arranged a vertical series of horizontal slots *e f g*, the arrangement being such that when the lower edge *h* of the plate *a* rests upon the parts *b d* of the fitting next beneath it, the parts *c* of such lower plate will project through the lowest of the slots *f*. In like manner if it is desired that the shelves be supported nearer together, the parts *b c d* may be inserted into any of the similarly located slots *e f g* at the appropriate part of each of the fittings, as is shown in Fig. 6, in which the lowermost fittings rest upon a ridge or projection *l*, secured to the side wall of the part containing the shelves. Owing to the slots in the fittings at both ends of the shelf being similarly spaced the said shelves are of necessity parallel.

According to the modification shown in Figs. 3, 4, 5 and 7 the plate *a* is provided with vertical corrugations *i* in order to stiffen it. It is also offset transversely at *j* to enable the fittings to lie flat against each other when interlocked, as is shown in Fig. 7, in which the lowermost fittings rest upon the bottom of the cabinet or receptacle to which they are applied.

It will be seen by reference to Figs. 6 and 7 that the shelves *k*, which are similarly supported at both ends, are inserted between the ledges *b d* and *c* of the fitting and retain the lower portion of the fitting next above them in engagement with the fitting which supports them. In this way the whole tier of

shelves is securely supported and the load taken by the fittings in the direction of their greatest strength.

In some cases the upper part *c* instead of projecting at right angles to the plate *a*, may remain vertical, as is shown by the dotted lines at c^1 in Figs. 2 and 4 to enable the shelves to be lowered onto the supporting ledges *b d* from above when it is not convenient to slide them in.

It will be understood that in some cases the hereinbefore mentioned ledges may be situated at or near the center of the fitting instead of near the upper edge thereof and that the said fittings may have slots either above or beneath the said ledges. It will also be manifest that instead of building up the fittings from the bottom, the top ones may be suspended from nails or the equivalent while the lower ones may engage and depend from the fitting next above it. It will also be understood that the hereinbefore described fittings may be employed to retain vertical or other partitions in position in their respective places in which case the said fittings will be applied to the top, bottom, side or other part adjacent to the end of such partition or partitions.

I claim:

1. A shelf support comprising a series of fittings each having one or more ledges and one or more slots, said ledges or some of them being adapted to support one end of a shelf after passing through slots in the fitting above which it also supports, substantially as described.

2. An adjustable shelf support comprising a series of fittings each having one or more ledges and one or more slots vertically beneath such ledges, said ledges or some of them being adapted to support one end of a shelf after passing through slots in the fitting above which it also supports, substantially as described.

3. An adjustable shelf support comprising a series of fittings each having one or more ledges in combination with a vertical series of slots beneath each ledge, one of the slots of each series being adapted to engage the ledges of a lower similar fitting by which it is supported, such supported fitting in turn supporting the next shelf at a desired distance above the one next beneath it, vertical corrugations in each fitting to strengthen them and a transverse offset in each such fitting to accommodate the upper portion of the fitting next beneath it, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDGAR ALFRED GODDIN.

Witnesses:
FLORENCE ROSE SMITH,
JOHN WOODROW MACHATTIE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."