April 29, 1952 K. A. SCHNEIDER 2,595,002

DISPLAY STAND

Filed April 28, 1948 2 SHEETS—SHEET 1

Fig. 5.

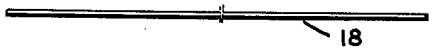



Fig. 1.




Fig. 2.

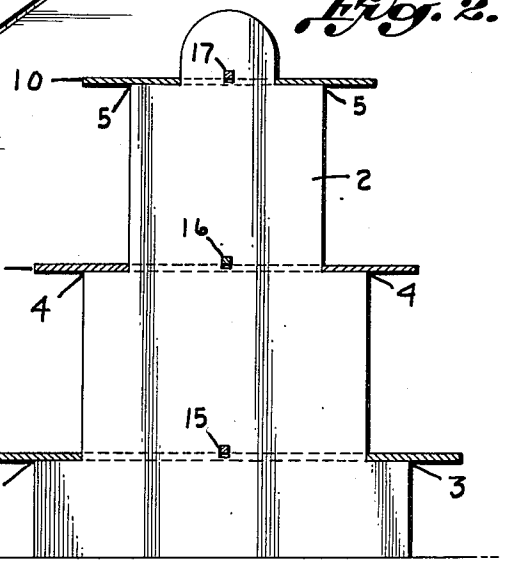



Fig. 3.

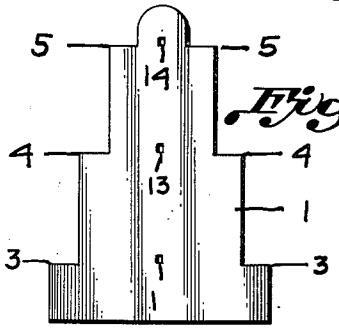
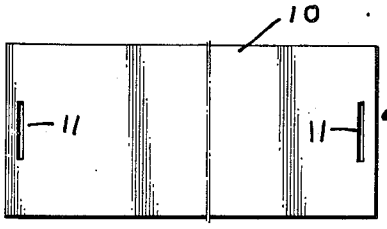



Fig. 4.




Inventor

KURT ALBERT SCHNEIDER

By R Houston Both

Attorney

April 29, 1952 K. A. SCHNEIDER 2,595,002

DISPLAY STAND

Filed April 28, 1948 2 SHEETS—SHEET 2

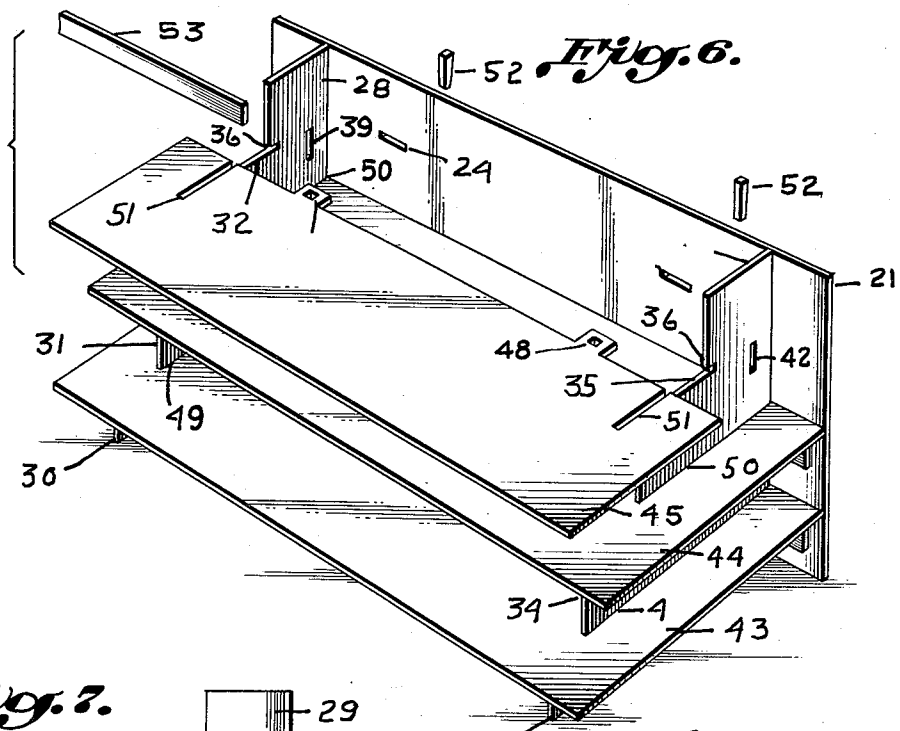



Fig. 6.

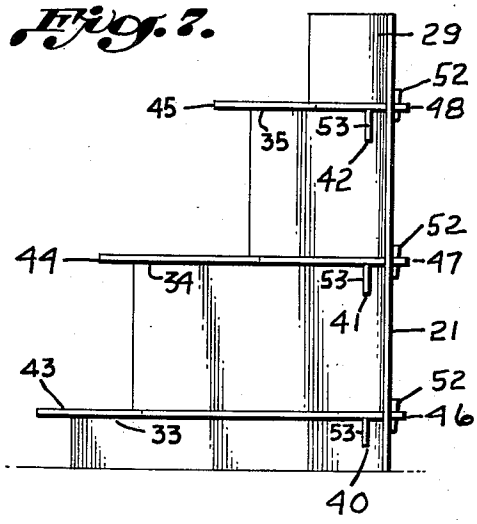



Fig. 7.

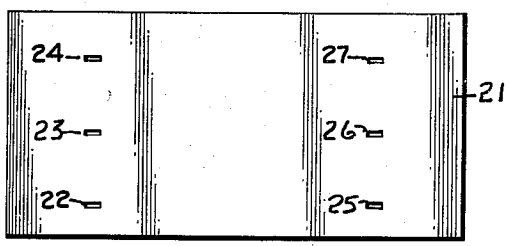



Fig. 9.

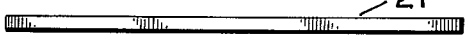
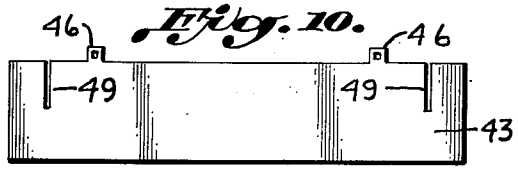



Fig. 10.



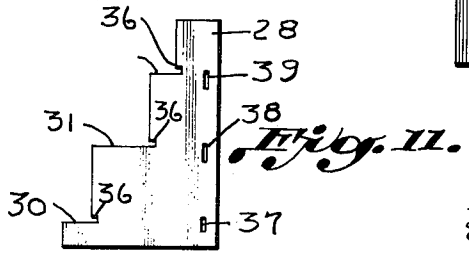




Fig. 11.

Fig. 8.

Inventor

KURT ALBERT SCHNEIDER

By R. Houston Brett

Attorney

Patented Apr. 29, 1952

2,595,002

# UNITED STATES PATENT OFFICE

2,595,002

## DISPLAY STAND

Kurt Albert Schneider, Sandston, Va.

Application April 28, 1948, Serial No. 23,773

1 Claim. (Cl. 211—137)

1

This invention relates to a new and useful improvement in a display stand, and more particularly to the collapsible or knockdown type.

One of the objects of this invention is the provision of a display stand which is so constructed as to be capable of being easily and readily assembled and secured in set-up condition by anyone without the use of nails, screws or other fastening devices of this nature which require the use of tools, and which shelving when set up provides a structure possessing the requisite strength, rigidity and stability to withstand the purposes for which it is intended.

Another object of this invention comprehends an improved knockdown shelving and parts which are so constructed as to facilitate the disassembly thereof so that the parts are capable of being compactly stacked or nested together for packaging, shipping or storage.

A further object of this invention is the provision of a collapsible stand for the display of articles and merchandise.

Other objects and features will more fully appear from the following description and accompanying drawings, in which:

Fig. 1 is a perspective view of the stand in set-up condition;

Fig. 2 is a vertical sectional view showing shelving on one of the supporting members;

Fig. 3 is an elevational view of the other supporting member;

Fig. 4 is a foreshortened plan view of one of the shelves;

Fig. 5 is a foreshortened elevational view of a wedge or bar piece;

Fig. 6 is a perspective view of a modification in exploded view arrangement;

Fig. 7 is an elevational end view of the modification;

Fig. 8 is an elevational view of the back portion of Fig. 6;

Fig. 9 is a plan view of Fig. 8;

Fig. 10 is a plan view of a shelf; and

Fig. 11 a side perspective of a support of said modification.

Referring to the drawings (Figs. 1 through 4) the stand consists of supports 1—2. Each support is respectively provided with directly opposed steps 3—3, 4—4 and 5—5 on respectively corresponding levels and arranged in stair-like fashion. A shelf 6 is provided with slots 7—7 respectively located near each of its ends; thereby providing the shelf with means whereby it may be slipped over the supports to rest upon steps 3—3. A shelf 8 is likewise provided with slots

2

9—9 and rests upon steps 4—4, while a shelf 10 is similarly provided with slots 11—11 and adapted to rest upon steps 5—5.

Supports 1—2 are respectively provided with apertures 12—13—14 and 15—16—17; apertures 12—15, 13—16 and 14—17 of supports 1—2 intercept the plane of steps 3—3, 4—4 and 5—5. Wedges 18, 19 and 20 respectively register with apertures 12—15, 13—16 and 14—17, and wedge the shelves against the steps upon which they are seated as well as resisting lateral displacement.

Referring to the modification set forth in Figs. 6 through 11, the stand consists of a back 21 provided with slots 22—23—24 and 25—26—27. Supports 28—29 are respectively provided with steps 30—31—32 and 33—34—35. Above each of said steps is disposed a recess 36, the purpose of which will be more fully explained hereinafter. Supports 28—29 are respectively provided with orifices 37—38—39 and 40—41—42.

Shelves 43—44—45 are respectively provided with a pair of apertured keys or tenons 46—47—48 and also a pair of slots or grooves 49—50—51.

The modification is assembled as follows: back piece 21 is placed in upright position and supports 28—29 are positioned at right angles to the back piece and in spaced relations to each other near and against each of the ends of said back piece. Grooves 49—49 of the shelf 43 respectively register with supports 28—29 and said shelf rests upon steps 30—33. Grooves 50—50 and 51—51 of shelves 44 and 45 respectively register with supports 28—29 and said shelves respectively rest upon steps 31—34 and 32—35. Keys 46—46 of shelf 43 respectively extend through slots 22—25, keys 47—47 of shelf 44 respectively extend through slots 23—26, and keys 48—48 of shelf 45 respectively extend through slots 24—27.

Wedges 52 are respectively disposed in the apertured keys and forced downwardly so as to draw the shelves tightly and securely against the back.

Wedges or bracing strips 53 respectively engage orifices 37—40, 38—41 and 39—42 and are wedged in said orifices against the bases of said shelves to support the latter and also help provide a more rigid stand. The shelves also respectively register with notches or recesses 36 of each step to prevent vertical displacement.

It is obvious from the foregoing that the display stand in its preferred form (Figs. 1 through 5) as well as the modified form (Figs. 6 through 11) may be easily assembled and disassembled and packed or stored in compact fashion. The

preferred form is best adapted for use where floor space or the like provides for the placing of merchandise or articles to be displayed on both sides of the stand; while the modified form is more suitable when it is placed against a wall or other backing.

It will also be observed that both types of stands may be made any length and additional supports may be added as the length is increased.

Having described this invention, what is claimed is:

A knockdown display stand comprising a plurality of separate individual elements of lumber comprising a pair of upright supports, a plurality of shelves, a single unitary back piece, a plurality of combined supporting and bracing strips and a plurality of fastener wedges, all of said elements having free edges when not assembled, said supports being stepped along their corresponding edges respectively to form seats for said shelves, said supports having front and rear edges, said supports having upright slotted portions adjacent their rear edges, said portions being in vertical alignment with each other and the uppermost portions being on a level with said stepped portions respectively, said supports being recessed rearwardly from said stepped portions on a level with said stepped portions, said shelves being of different widths, the uppermost shelf being the narrowest and the lowermost shelf being the broadest, said shelves having front and rear edges, each of said shelves having a pair of apertured tenons on the rear edge thereof, said shelves being slotted in their rear edges at



a point located intermediate the tenons and the ends of the shelves thereby providing free unsupported rear edge portions for said shelves, said back piece having three pairs of slotted portions receiving the apertured tenons on the rear of the shelves, each apertured tenon receiving one of said wedges to firmly secure the back piece to the shelves and supports, the slotted portions of the shelves receiving the supports and the shelves also interfitting in the recesses of the upright supports, said combined supporting and bracing strips being rectangular in cross section and being wider than they are thick and extending through the slotted portions of the upright supports and fitting snugly therein, said strips engaging beneath the slotted rear edge portions of said shelves and firmly supporting the same both inside and outside of said upright supports.

KURT ALBERT SCHNEIDER.


## REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

| Number | Name | Date |
|---|---|---|
| 1,047,882 | Beach | Dec. 17, 1912 |
| 1,288,634 | MacOrquodale | Dec. 24, 1918 |
| 1,740,754 | Vance | Dec. 24, 1929 |
| 1,886,532 | Davidson | Nov. 8, 1932 |
| 1,895,725 | Nuckols | Jan. 31, 1933 |
| 2,366,676 | Rosenthal | Jan. 2, 1945 |
| 2,366,677 | Rosenthal | Jan. 2, 1945 |
| 2,414,334 | Schild | Jan. 14, 1947 |