Jan. 26, 1926. 1,570,651

W. TOPPING ET AL.

DISPLAY STAND

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Fig. 1

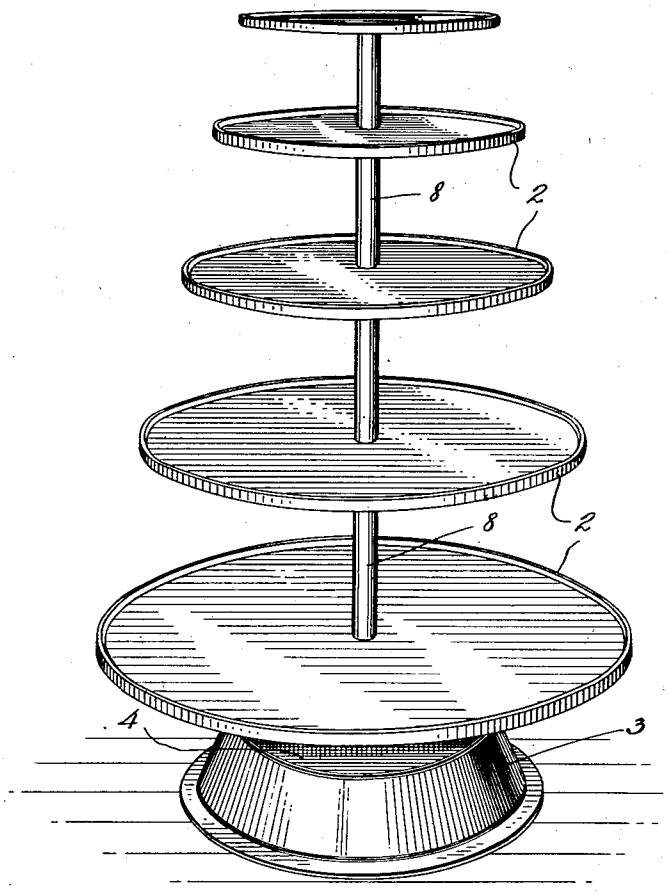
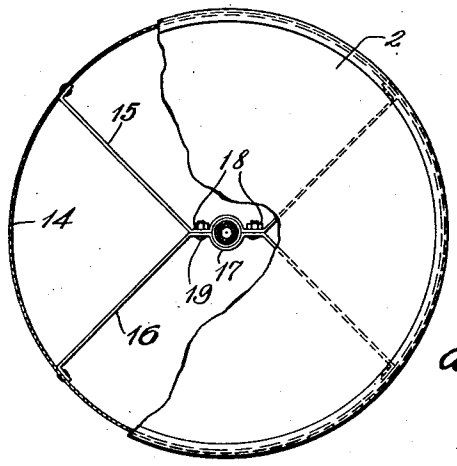


Fig. 3



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DISPLAY STAND

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Fig. 5

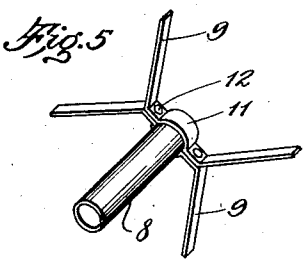


Fig. 4

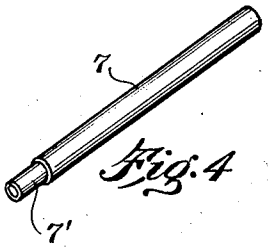
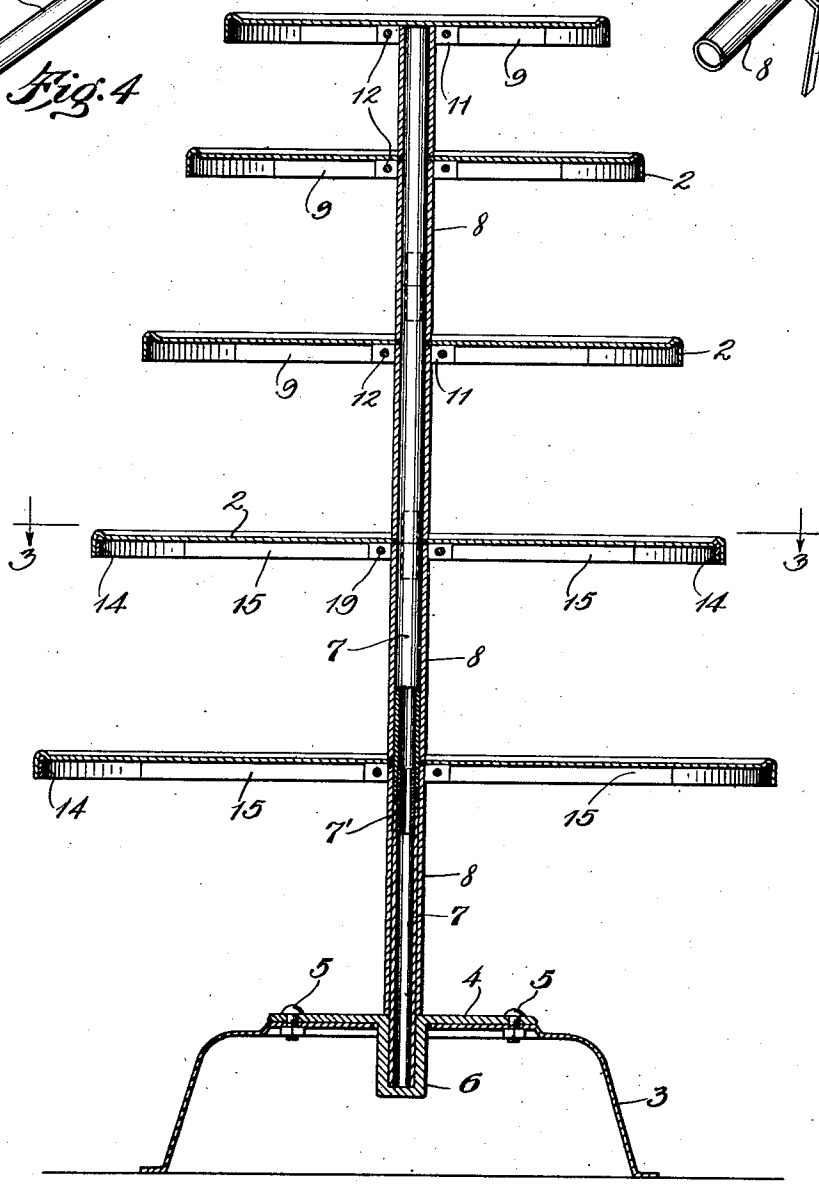


Fig. 2



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UNITED STATES PATENT OFFICE.

WILBUR TOPPING AND ANDREW W. NELSON, OF TERRE HAUTE, INDIANA, ASSIGNORS TO COLUMBIAN ENAMELING & STAMPING CO., OF TERRE HAUTE, INDIANA, A CORPORATION OF INDIANA.

DISPLAY STAND.

Application filed September 17, 1925. Serial No. 56,787.

To all whom it may concern:

Be it known that we, WILBUR TOPPING and ANDREW W. NELSON, citizens of the United States, residing at Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Display Stands, of which the following is a specification.

Our invention relates to a new and improved display stand.

One of the objects of our invention is to provide a display stand which shall comprise a series of trays of varying size which can be readily stamped out from any suitable metal, and which will be supported in proper relationship by a series of separable pipe members so that the entire display stand can have all its parts detached one from the other, for economy and convenience in storing and shipping the device.

Another object of our invention is to combine the trays and pipe members above mentioned with a base which can also be made of stamped metal and which can be combined with a single casting.

Another object of our invention is to provide a device of the above mentioned character which shall be strong and stable and in which the trays can be turned either singly or in unison so as to efficiently display the articles placed thereon.

Other objects of our invention will be set forth in the following description and drawings which illustrate a preferred embodiment thereof, it being understood that the above general statement of the objects of our invention is intended to merely generally explain the same and not to limit it in any manner whatever.

Fig. 1 is a perspective view showing the device in assembled condition.

Fig. 2 is a sectional view of Fig. 1.

Fig. 3 is a sectional view partially broken away on the line 3—3 of Fig. 2.

Fig. 4 is a perspective view of one of the inner pipe members.

Fig. 5 is a perspective view of one of the outer sleeves and brackets.

As clearly shown in Fig. 2, the device has a base 3 which can be made of stamped metal and which is provided with a central opening at the top thereof. A relatively heavy casting 4 is provided with a socket 6 which extends through the opening in the base 3. The casting 4 is connected to the top of the base 3 by means of holding members 5, which may be rivets, bolts or other fastening devices of any kind, whereby the casting 4 can be held either permanently or detachably to the base 3.

The supporting column for the trays 2 consists of a series of telescopic inner pipe members 7 and a series of sleeves or outer pipe members 8. In the embodiment described, there are four of the inner pipe members 7. The bottom pipe member 7 fits snugly into the socket 6 of the casting 4.

However, the bottom pipe member 7 can be turned, if desired, in the socket 6.

The other pipe members 7 are provided with reduced end portions 7′ whereby each can be fitted snugly within the adjacent lower pipe member 7. However, we prefer to have each inner pipe member 7 turnable with respect to the other pipe members 7.

Hence, the four pipe members 7 constitute a central supporting column.

The two largest trays 2 are preferably provided with brackets of the type shown in Fig. 3. These brackets consist essentially of a circular metal rim 14 to which braces 15 and 16 are connected. The central portions of the braces 15 and 16 each have a semi-circular portion 17, and they also have straight line portions which can be forced together so as to tightly grip an outer sleeve 8, by means of the bolts 19 and the nuts 18. Hence, the brackets for the two bottom trays 2 can be readily connected to, and be detached from, their respective sleeves 8.

After the four inner pipe members 7 have been assembled or after the first inner pipe member 7 has been placed into position, then the first or bottom sleeve 8 can be moved into the proper position and so as to support the bottom tray 2, which is suitably perforated. The perforation of the bottom tray 2 has a diameter which is greater than that of the bottom sleeve 8 so that the bottom tray 2 rests directly and firmly upon the supporting member therefor.

The bottom sleeve 8 is longer than the corresponding bottom member 7.

After the first tray has been placed in position, the second pipe member 7 is now fitted within the bottom sleeve 8 so that the

reduced end 7' of the second pipe member 7 fits within the bottom pipe member 7.

The second sleeve 8 is now placed in position. The second sleeve 8 is shorter than the first or bottom sleeve so that the top thereof is substantially flush with the top of the second inner pipe member 7. The second pipe member 8 has a holding bracket connected thereto which is the same as that previously described in connection with Fig. 3, and the second tray 2 is also provided with a central perforation of larger diameter than the diameter of the sleeve 8. The third sleeve 8 is shorter than the preceding sleeves so that the third pipe member 7 projects above the third sleeve 8 for a substantial distance.

The third and fourth and fifth sleeves 8 are provided with supporting brackets for their respective trays 2 of the type shown in Fig. 5. These brackets consist of arms 9 and 10, each of said arms being connected to a semi-circular portion 11 adapted to fit around the respective sleeve 8. Each of the semi-circular portions 11 is also adjacent a straight line portion, and the respective straight line portions can be connected by bolts 12 so that the arms 9 and 10 can be frictionally secured to their respective sleeves 8.

The fourth sleeve 8 is now slipped over the projecting end of the third pipe member 7 so that the fourth sleeve 8 projects above the top of the third pipe member 7.

The fourth pipe member 7 is now thrust into position and this projects sufficiently above the fourth sleeve 8 so that the fifth pipe member 8 can be slipped into position with its top substantially flush with the top of the fourth pipe member 7. All the trays 2 are perforated save the top tray.

As previously stated, the sleeves 8 vary uniformly in length, the longest sleeve being located at the bottom of the device and directly connected to the base casting 4. The inner pipe sections 7 are preferably of the same length.

It is obvious that all the trays may be turned in unison or that each tray may be turned independently of the others so as to display any articles placed thereon.

We have shown a preferred embodiment of our invention, but it is clear that numerous changes and omissions could be made without departing from its spirit.

Thus, although we have shown the inner pipe column as being composed of several sections or parts, it would clearly be an equivalent if the inner supporting column were made of a single piece of pipe of any suitable length.

We claim:—

1. A display stand having a base with a central perforation, a socket bearing member fitting into said perforation, a plurality of inner pipe sections detachably and interfittingly connected to each other and resting in said socket, a plurality of disconnected external pipe sections fitting over said inner pipe sections, brackets connected to said outer sections, and trays mounted upon the said brackets, each of the said external pipe sections extending between two adjacent trays.

2. A display stand having a stamped hollow convex base with a central perforation therein, a member having a socket attached to said base and fitting said perforation, a series of pipe sections fitted together to form the axis of said display stand and resting in said socket, a series of disconnected outer pipe sections over said axle, brackets connected to the outer sections, and trays mounted upon the said brackets, each of the said external pipe sections extending between two adjacent trays.

In testimony whereof we affix our signatures.

WILBUR TOPPING.
ANDREW W. NELSON.