

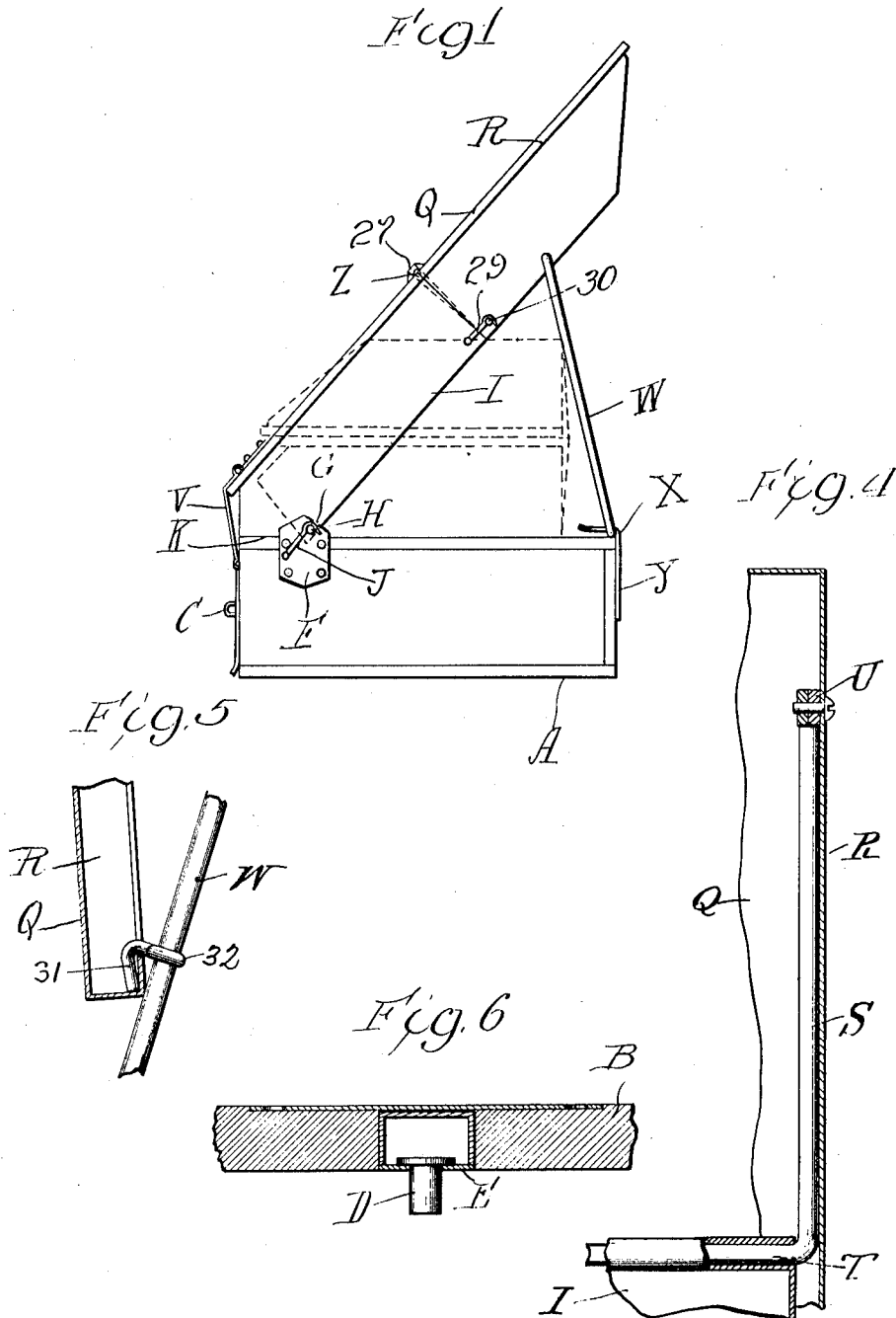
C. DOERING, JR.
DISPLAY RACK.

APPLICATION FILED JAN. 7, 1910.

1,035,551.

Patented Aug. 13, 1912.

3 SHEETS—SHEET 1.



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3 SHEETS—SHEET 2.

Fig. 2

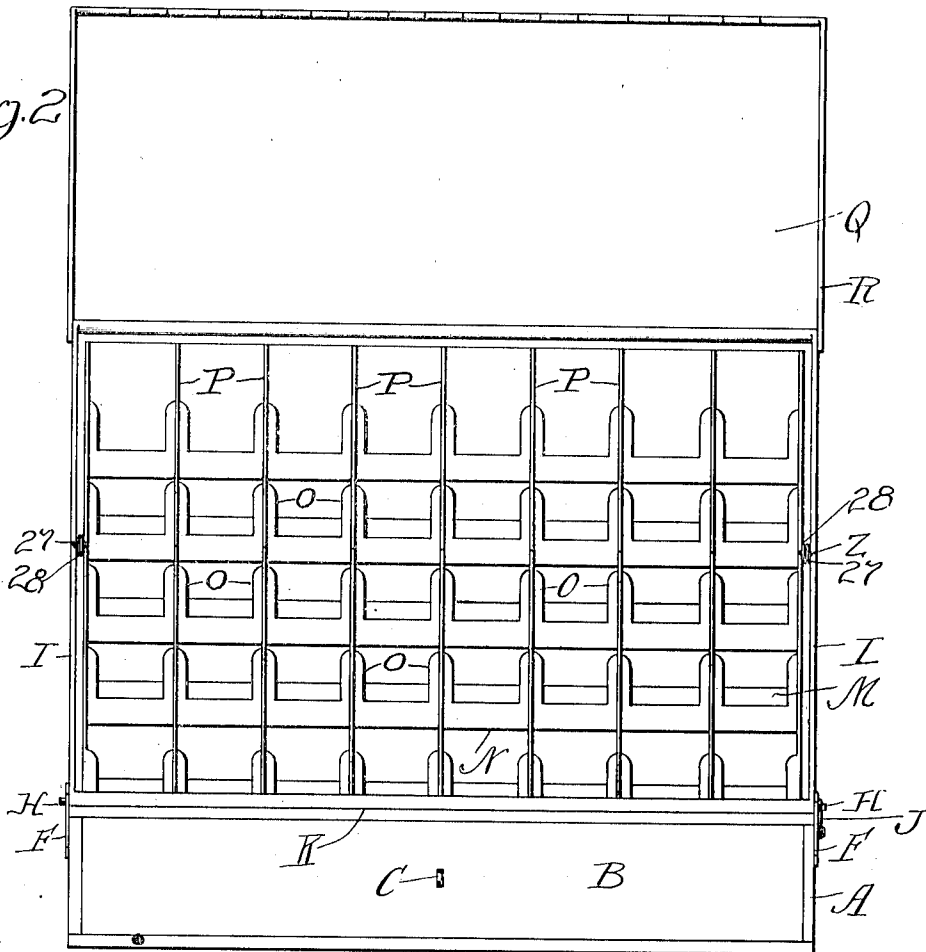
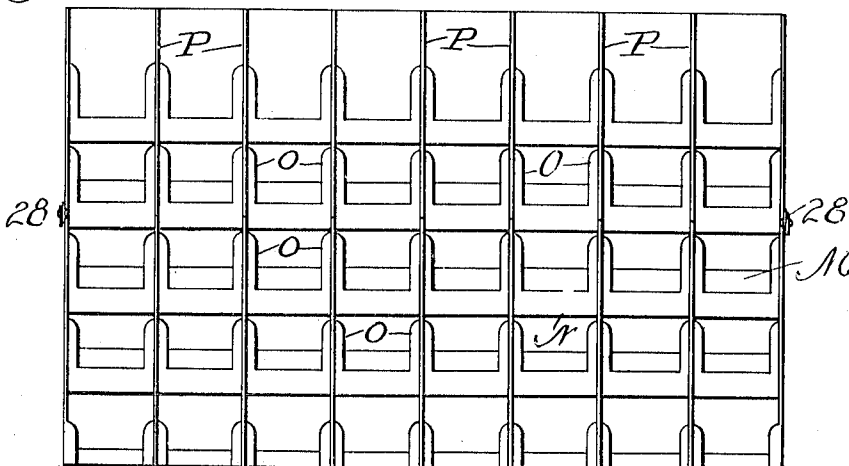


Fig. 3



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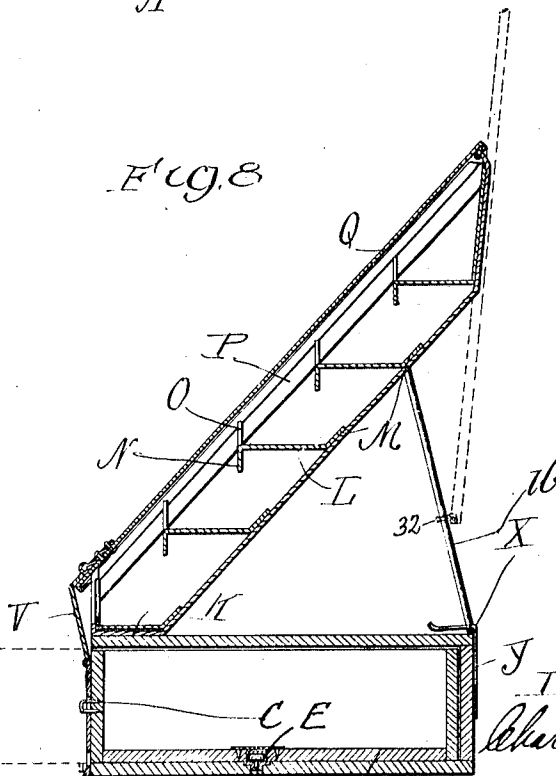
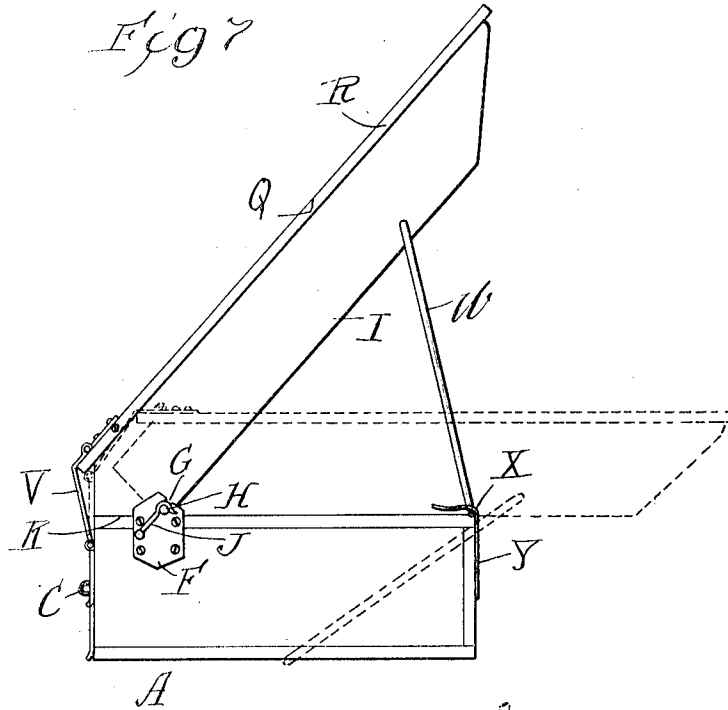
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3 SHEETS—SHEET 3.

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UNITED STATES PATENT OFFICE.

CHARLES DOERING, JR., OF CHICAGO, ILLINOIS.

DISPLAY-RACK.

1,035,551.

Specification of Letters Patent.

Patented Aug. 13, 1912.

Application filed January 7, 1910. Serial No. 536,907.

To all whom it may concern:

Be it known that I, CHARLES DOERING, JR., citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Display-Racks; and I do hereby declare the following to be 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.

This invention relates to a novel construction in a display rack particularly adapted for displaying and containing packages of seeds or the like, the object being to provide a rack which at the same time constitutes a shipping receptacle for the seed packages and which is simple, durable and efficient, and consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings illustrating this invention: Figure —1— is a view in side elevation of a display rack constructed in accordance with my invention. Fig. —2— is a front elevation of the same showing the cover raised. Fig. —3— is a view in front elevation of the removable rack forming a part of the device. Fig. —4— is a detail sectional view showing means employed for supporting the cover in the position shown in Fig. —2—. Fig. —5— is a detail view showing a latch employed for maintaining the cover rigidly in the position shown in Fig. —2—. Fig. —6— is a fragmentary detail section showing a locking device employed in connection with the drawer in the base of the device. Fig. —7— is a view in side elevation similar to Fig. —1— showing the construction modified by omitting the hinge between the divisions of the upper portion of the device. Fig. —8— is a central vertical longitudinal section of the same.

The object of my invention is to provide a display rack for seed packages, or the like, in which the package will be exposed to view over substantially its entire area, and which may be stocked with packages before shipment to retail dealers thus avoiding the necessity of the latter filling the same and relieving such dealers of all work except to unpack and set up the rack.

The rack comprises the base A consisting preferably of a box open at one end and in which a drawer B is received, the latter

being adapted to contain packages of seeds or a further stock of any matter which may be displayed in the rack. Said drawer is provided on its exposed wall with a staple C by means of which it may be drawn outwardly and in its bottom is provided with a latch D consisting of a pin having a flat head, said pin projecting through an opening in the bottom wall of a cylindrical box E mounted in an opening in the bottom of said drawer. The said pin D is adapted to enter an opening in the bottom wall of the box A to lock the drawer as is more clearly shown in Fig. —8—, and when said drawer is withdrawn constitutes a stop to prevent the same from being closed. Said pin is adapted to be raised by the finger of the operator to throw the same out of engaging relation to the bottom wall of the box A. Mounted upon the end walls of the box are plates F, each of which is provided in its upper edge with a recess G in each of which the pin H projecting from the side walls of the casing I is adapted to be received, said pins being held against removal from said recesses by means of hooks J, the latter being pivotally secured to said plates at one end and receiving the projecting end portions of said pins H. The said casing I is preferably made of sheet metal and is adapted to be disposed at an angle (here shown substantially 60 degrees) to the plane of the upper wall of the box A. The end and side walls of said casing I when in the position shown in full lines in Fig. —1— are vertically disposed and the bottom wall K thereof is horizontally disposed and is adapted to rest upon the top wall of the box A when the said rack is supported in proper position to display the contents thereof. Contained within said casing A is a rack which consists of a plurality of parallel plates L each of which is provided at one end with an inclined flange M adapted to rest upon the inclined rear wall of the casing I and at its other end is provided with a flange N extending at right angles thereto downwardly therefrom. Said flanges N are equipped with upwardly extending projections O arranged in pairs equidistantly from each other. Between each pair an inclined strip P of metal is received and secured, said strips constituting connecting means between the several shelves or plates L. The said strips P together with said shelves L are removable from said casing I. A cover Q is pivotally mounted upon said

casing I and is provided at its side edges with over-turned or U-shaped flanges R in which arms S are adapted to be received.

In the instance illustrated, the parts S consist of the arms of a U-shaped member or rod T which is pivotally secured in the uppermost edge of the vertical rear wall of the casing I. The said member T constitutes the pivot upon which said cover Q is adapted to turn and the arms S thereof constitute guides on which said cover is longitudinally movable. The latter when turned to a vertical position may drop to the position indicated in dotted lines in Fig. —8— and shown in full lines in Fig. —2—, its downward movement being limited by the stops U disposed in the path of said over-turned flanges R and which are engaged by the free ends of the arms S. Pivotally secured to the lower end portion of said cover Q is a strap V in the free end portion of which is a slot through which the staple C is adapted to pass to engage the same, said strap and staple constituting means for effectually sealing the device as will be obvious. The said casing is supported in the position shown in Figs. —1—, —2—, —7— and —8— by means of a U-shaped rod W pivotally secured at the free ends of its arms to the side walls of the casing I and at its middle portion adapted to be sprung into hooks X formed by the free flanges of metal straps Y secured to the rear wall of the box A and which project to overhang the top wall thereof, said flanges being ogee curved. By releasing the said rod W from engagement with said hooks X and releasing the strap V from engagement with the staple C, the casing I may be lowered to the position shown in Fig. —7—, the said rod W in that event passing at its middle portion underneath the box as shown in the last-named figure. In this position the device may readily be crated or wired for purposes of shipment but by reason of the fact that the upper portion of said casing I projects considerably rearwardly from the box A the form of the device is not as well adapted for crating and shipment as would be the case were it possible to employ a substantially rectangular crate or box which is more completely filled by the device. Accordingly, I prefer for purposes of boxing and shipping, to divide the casing I between its ends as shown in Fig. —1—, this being effected as follows: The bottom wall and side walls of the casing are made in two parts respectively. Secured to each of the adjacent portions of the respective parts of the side walls of the casing I is a flange —27— the flanges of adjacent portions overlapping each other and being pivotally secured together by a rivet Z as shown in detail in Fig. —2— or in any other suitable manner. The strips P of the rack are simi-

larly equipped with projections —28— pivotally secured together, the first-named and last-named pivots being disposed in alinement with each other. The cover is also made in two parts hinged together, the axis of said hinge being in alinement with the pivots of the two parts of the side walls of the casing I, said cover being provided with slots adjacent its side edges to receive said projections —27— and —28— in order to enable the pivots thereof to be brought into axial alinement with said hinge thus causing said respective parts to swing on a substantially common axis and enabling the device to be folded as shown in dotted lines in Fig. —1—. A small and compact package thus made, is easily boxed or crated for shipment.

Attention is directed to the fact that the casing I when folded as indicated in dotted lines in Fig. —1— will be open at its hinged end and the rack readily removable therefrom and further that the rack when thus folded will not permit its contents to be removed from the open hinged end of the casing I without first removing the rack. The latter is held against removal by wiring or otherwise tying the device in its folded position.

When positioned for display as shown in full lines in Fig. —1—, the respective parts of the casing I are locked in relative position by the hooks —29— pivotally secured to one of said parts and engaging the projections —30— on the other thereof.

The cover R when swung back and lowered, as shown in Fig. 8, is free to swing in one direction and may be swung by a draft of air and become noisily annoying. To avoid this wire hooks 31 are provided, the loops 32 of which receive the arms W and the noses of which are adapted to enter and engage the overturned flange of the cover with said arms and thus prevent swinging of said cover.

I claim as my invention:

1. In a display stand, a base, a casing pivotally secured thereto and resting thereon, a brace pivotally secured to one of said parts, means on the other thereof yieldingly engaging said brace, a cover on said casing, and a member slidable in said cover and pivotally secured to said casing.

2. In a display stand, a base, a casing pivotally secured thereto and resting thereon, a brace pivotally secured to one of said parts, means on the other thereof yieldingly engaging said brace, a cover on said casing, and a member slidable in said cover and pivotally secured to said casing, and means on said brace adapted to removably engage said cover to hold the same against pivotal movement.

3. In a display stand, a base, projections thereon equipped in their edges with re-

cesses, a casing supported on said base, projections thereon adapted to enter said recesses, retaining means engaged with said base and adapted to engage said projections of said casing to hold the same in said recesses and a brace engaging said base and said casing for supporting the latter at an incline on the former.

4. In a display stand, a base, projections thereon equipped in their edges with recesses, a casing supported on said base, projections thereon adapted to enter said recesses, retaining means engaged with said base and adapted to engage said projections of said casing to hold the same in said recesses and a brace engaging said base and said casing for supporting the latter at an incline on the former, a cover on said casing and a member pivotally engaged with said casing and having sliding engagement with said cover.

5. In a display stand, a base, projections thereon equipped in their edges with recesses, a casing supported on said base, projections thereon adapted to enter said recesses, retaining means engaged with said base and adapted to engage said projections of said casing to hold the same in said recesses and a brace engaging said base and said casing for supporting the latter at an incline on the former, a cover on said casing and a member pivotally engaged with said casing and having sliding engagement with said cover, and means adapted to engage said cover to hold same against pivotal movement.

6. In a display stand, a base, projections thereon equipped in their edges with recesses, a casing supported on said base, projections thereon adapted to enter said recesses, retaining means engaged with said base and adapted to engage said projections of said casing to hold the same in said recesses and a brace engaging said base and said casing for supporting the latter at an incline on the former, a cover on said casing and a member pivotally engaged with said casing and having sliding engagement with said cover, and stops on said cover disposed in the path of said member to limit the relative movement of the latter and said cover in one direction.

7. In a display stand, a base, projections thereon equipped in their edges with recesses, a casing supported on said base, projections thereon adapted to enter said recesses, retaining means engaged with said base and adapted to engage said projections of said casing to hold the same in said recesses and a brace engaging said base and said casing for supporting the latter at an incline on the former, a U-shaped member pivotally engaged with said casing at its middle portion and a cover having opposed overturned flanges on its side edges provid-

ing opposed guide-grooves in which the arms of said U-shaped member are slidable.

8. In a display stand, a base, a casing supported thereon, at an incline, a cover pivotally engaged with said casing, a removable rack in said casing equipped with pockets adapted to receive the matter to be displayed, said cover, casing and rack each comprising two members hinged together, the pivots of said respective hinge connections being disposed substantially in axial alinement with each other.

9. In a display stand, a base, a casing supported thereon, at an incline, a cover pivotally engaged with said casing, a removable rack in said casing equipped with pockets adapted to receive the matter to be displayed, said cover, casing and rack each comprising two members hinged together, the pivots of said respective hinge connections being disposed substantially in axial alinement with each other, and means on one part of said casing operatively engaging the other part thereof to hold the same against pivotal movement relatively to each other.

10. In a device of the class set forth, a packet drawer housing, a crate hinged at its lower end to the forward portion of the top of said housing permitting it to be turned down on said top or inclined upwardly upon said housing, means for supporting said crate in inclined position and a packet holder detachably supported in said crate.

11. In a device of the class set forth, comprising, in combination, a packet drawer housing, a crate hinged at its forward end to the forward portion of the top of said housing permitting it to be turned down or inclined upwardly upon said housing, a brace for holding said crate in upwardly inclined position upon said housing, a packet holder detachably supported by said crate, a cover for said crate and a hinged connection between said cover and crate permitting said cover to slide on said crate and hang in substantially vertical position when the latter is in upwardly inclined position.

12. A device of the class set forth, comprising, in combination, a packet drawer housing, a crate detachably secured to said housing, means for supporting said crate in upwardly inclined position on said housing, a packet holder adapted to be detachably supported by said crate and a cover for closing said crate, said crate being formed with substantially vertical side walls when in inclined position between which said packet holder is received.

13. A device of the class set forth, comprising, in combination, a packet drawer housing, a crate separably hinged upon the forward upper portion of said housing, a

brace adapted to support said crate in upwardly inclined position upon said housing. a cover on said crate and a packet holder separably supported by said crate consisting
5 of a plurality of vertical and longitudinal partitions and a plurality of superimposed floors having upturned flanges engaging said partitions to form pockets for packets.

10 14. A device of the class set forth, comprising, in combination, a packet drawer housing, a crate separably hinged to the top of said housing, a brace adapted to support said crate in upwardly inclined position, a cover for said crate, a hinge secured to said

crate and having sliding connection with
15 said cover permitting said cover to turn back and slide down over said crate, means for limiting the sliding movement of said cover and a packet holder having a plurality of packet pockets separably supported
20 in said crate.

In testimony whereof I have signed my name in presence of two subscribing witnesses.

CHARLES DOERING, JR.

Witnesses:

JOHN H. BAUMGARTEN,

H. H. DOERING.