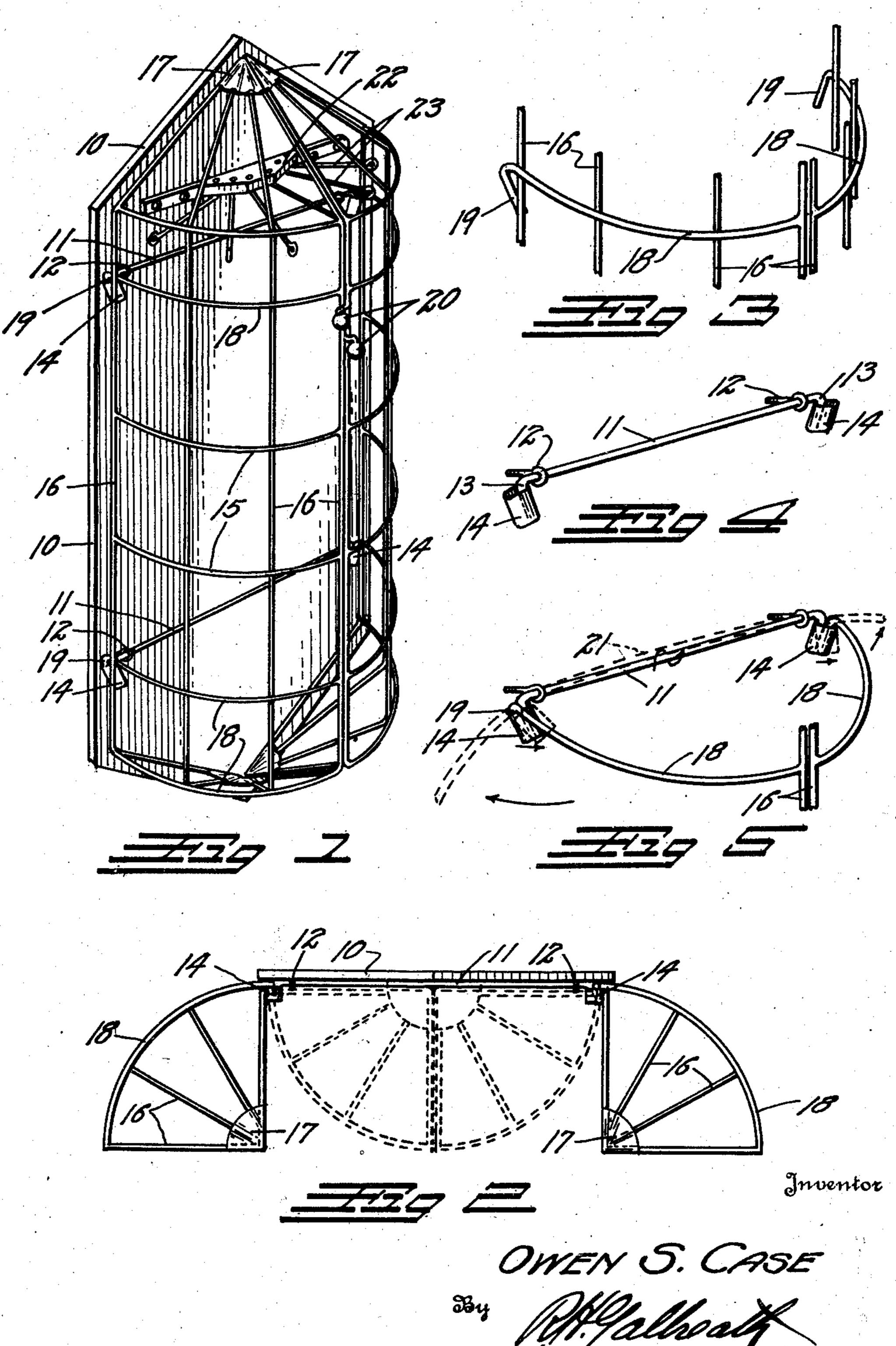
WALL RACK OR CABINET

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## O. S. CASE

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## UNITED STATES PATENT OFFICE

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WALL RACK OR CABINET

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This invention relates to a rack or cabinet tion of the hinge bar and hooks as the doors adapted to be hung upon a wall. The rack is are swung to the open position. more particularly adaptable to be placed Fig. 6 is a front view of a simplified form rial and ornamentation by the purchaser. The rack may be used for a variety of dif- Fig. 7 is a similar view illustrating the ferent purposes such as a necktie rack, ward-rack of Fig. 6, in the open position. robe cabinet, cosmetic case, telephone shield, Fig. 8 is a detail perspective view illus-10 etc.

to provide a supporting frame for a rack of the closed position being indicated in brothis character which will have two hinged ken line. doors arranged to open and close simulta- The first form of the invention comprises or closed positions.

covering or replacement.

25 vide detachable hinges which will firmly hold the doors in position and prevent them inwardly, as illustrated in Fig. 5. from becoming accidentally dislodged.

to provide a necktie rack which will hold a 30 plurality of neckties in such a way that they will be protected from dust and dirt and so that they will not become crumpled and mussed.

In the drawing:

Fig. 1 is a perspective view of one form of my invention, illustrating the rack in the closed position. In this view, the cloth or ornamental covering has been omitted to illustrate the supporting frame.

1, illustrating it in the closed position, in broken line, and in the open position, in solid line.

Fig. 3 is a fragmentary detail view illus-45 trating the hinge hooks with which the doors are provided.

Fig. 4 is a detail view illustrating the hinge bar which receives the hinge hooks of the doors.

Fig. 5 is a detail view illustrating the ac-

upon the market as a wire frame arranged of the invention, with the cloth or fabric 5 to be covered with any suitable cloth mate- covering in place, as it appears in the closed 55 position.

trating the supporting frame of the form of 60 The principal object of the invention is Fig. 6, in both the open and closed positions,

neously and be maintained in either the open a rigid back 10, which may be of solid board 65 such as illustrated in Fig. 1, or a rigid Another object of the invention is to pro- frame of wires similar to the remainder of vide a simple and efficient hinge construct the device. Two laterally extending hinge tion which will snap the doors open and bars 11 are secured to the back 10 by means 20 snap the doors closed without the use of aux- of eyelets 12 or other suitable bearing devices. 70 iliary springs, etc., and which will allow the Each of the hinge bars 11 terminates in doors to be easily and quickly removed for angularly turned ends 13 to which are secured hinge sockets or sleeves 14. The ends A further object of the invention is to pro- 13 are bent at slightly more than a right angle so that they extend downwardly and 75

A pair of hinged doors are provided, each A still further object of the invention is consisting of a series of bent horizontal bars 15 and 18 joined by a series of vertical bars 16. The top and bottom of the rack may 80 be closed if desired by turning the vertical bars 16 inwardly and securing them in a conical point by means of terminal plates 17. The horizontal bars 18 terminate at bent extremities which form hinge pins 19. The 85 doors are provided with convenient handles 20 by means of which they may be opened and closed.

It is desired to call particular attention to Fig. 2 is a plan view of the form of Fig. the unique hinge construction which clamps 90 the doors in both the open and closed positions and also causes them to operate simultaneously. The action of the hinges is dependent upon the angle at which the hinge pins 19 project. The hinge pins 19 are po- 95 sitioned so as to extend downwardly from the bars 18 and slightly inward toward the center line of the back 10. The doors are secured in place by slipping the hinge pins 19 into the hinge sleeves 14.

by the arrows in Fig. 5, its hinge pin 19 will the direction of the initial movement. describe small horizontal arcs, first, moving The frame 25 may be provided with a hook inwardly so as to force the two opposite 5 sleeves 14 inwardly and flex the hinge bars 11 upwardly, as indicated in broken line at 21, Fig. 5. As the top of the arc or dead for operating the door members and the decenter of the inward swing of the pins 19 vice can carry any desired ornamentation is passed, the hinge bars will again straighten such as indicated at 34. and force the pins outwardly causing the If it is desired to use this form of the 75 doors to spring open. Since any movement, invention for a necktie rack, to which it is of either door is immediately communicated admirably adapted, radially-extending, pivto the hinge bars 11 the movement of the op-oted hangers 36 may be carried from the cross posite door will always be in unison or simul- member 26, as illustrated, to support the neck-15 taneous therewith. The doors are therefore, ties. held open and closed by the inherent elasticity. In its completed form the frame 25 and of the hinge bars 11. To either open or close the door members 30 are covered with ornathe doors the hinge bars must be flexed.

to conform to any desired descriptive scheme

according to the taste of the user.

25 adjacent to a dresser or dressing table and any desired angular or curved figure. and projecting from the back 10. Another device can be packed in a small neat package use for the device is as a necktie rack. For for marketing. the contemplation of the invention. spirit of the invention.

its self to loose, hanging draping. This form is:

pivot ends 33 which extend into pivot open-cause rotation of said hinge bars.

from so doing, however, by being held in the said sleeves, said sleeves projecting in a com- 125 65 the door members simultaneously to either as to cause the sleeves at the opposite extrem-130

If a door is swung outwardly, as indicated the open or closed positions depending upon

29, by means of which it may be hung from any suitable supporting surface such as a 70 wall. Suitable handles 31 may be provided

mental silk or other covering as illustrated The bars 15, 16, and 18 may be covered with at 35. The door members 30, as illustrated, 20 silk and ornamental braid or with parchment form a semi-circle when closed. It is de- 85 sired to be understood that this shape is simply illustrative. An infinite variety of The rack may be used for many purposes, shapes and designs are possible with the infor instance, it can be secured to the wall vention. The bars can be shaped to form

employed as a cosmetic case. For this use The door members can be quickly removed shelves would be secured to the back 10 at by simply unhooking the pivot ends 33 and desired intervals to support the cosmetics. sliding the hinge pins 28 from the hinge It will also serve to conceal a telephone which sleeve 27 and the tie hangers can be folded 30 can be supported upon a shelf supported by flat against the cross member 26 so that the 95

this use a supporting member 22 is secured. While a specific form of the improvement to the back 10 carrying a plurality of hinged, has been described and illustrated herein, 35 radially-extending arms 23, from which the it is desired to be understood that the same 100 neckties can be hung. Many other uses will may be varied, within the scope of the apsuggest themselves, all of which are within pended claims, without departing from the

In Figs. 6, 7, and 8, I have illustrated a Having thus described the invention, what simplified form of the invention which lends. I claim and desire secured by Letters Patent 105

of the invention composes an inverted 1. A wall rack comprising: a substantially V-shaped supporting frame 25, separated flat back member; rotatable hinge bars exat its bottom by a cross member 26. A double tending across said back member; sleeves carhinge sleeve 27 is pivoted to swing freely ried on the extremities of said hinge bars; 110 between the sides of the supporting frame 25. doors adapted to coact with each other and Door members 30 are each formed from a close over said back member; and hinge pins single bent wire which terminate at their carried by said doors so as to be received in a said to be received in a said doors so as a said doors so a said doors so as a said doors so a said doors so as a said doors so a said do upper extremities in angularly projecting said sleeves, said sleeves projecting in a com-50 hinge pins 28, which extend into the hinge mon plane and being inclined toward each 115 sleeve 27, and at their other extremities in other so that movement of said doors will

ings in feet 32 formed on the lower extremitable. 2. A wall rack comprising: a substantially ties of the frame 25. flat back member; rotatable hinge bars ex-The action of the hinge is somewhat simi-tending across said back member; sleeves car-120 lar to that of the previously described form, ried on the extremities of said hinge bars; that is, as the doors are opened or closed doors adapted to coact with each other and the hinge pins 28 tend to swing inwardly or close over said back member; and hinge pins towards each other. They are prevented carried by said doors so as to be received in common hinge sleeve 27. As a result, the mon plane and being inclined toward each door members 30 are flexed or sprung until other so that movement of said doors will the "dead center" is passed when they will cause rotation of said hinge bars, said hinge again resume their normal positions and force pins being bent downwardly and inwardly so ities of a hinge bar to be forced inwardly to flex said hinge bar as said doors are opened or closed.

3. Means for causing a pair of co-acting doors to move in unison comprising a hinge bar, rotatably supported and extending between said doors; a socket depending from each extremity of said hinge bar, said sockets extending inwardly to form an acute angle with said hinge bar; and a rigid hinge pin carried by each of said doors, said pins extending into said sockets at an angle common therewith so that rotation of either door will be transmitted, through rotation of said hinge

15 bar, to the other door.

ber.

4. A wall rack comprising: a rigid, plane back member; doors shaped extending outwardly from said back member and inwardly to a contact with each other to form a closed container with said back member; means for hinging and causing said doors to move in unison, said means comprising angularly projecting hinge pins formed on said doors; angularly projecting sockets adapted to receive said hinge pins; a rotatable shaft connecting said sockets so as to cause opposite hinge pins to move simultaneously; and means for rotatably supporting said shaft upon said back member.

5. A wall rack comprising: a rigid, plane back member; doors shaped extending outwardly from said back member and inwardly to a contact with each other to form a closed container with said back member; means for 35 hinging and causing said doors to move in unison, said means comprising angularly projecting hinge pins formed on said doors; angularly projecting sockets adapted to receive said pins; a shaft connecting said 40 sockets so as to cause opposite hinge pins to move simultaneously, said hinge pins projecting inwardly so that they swing toward each other as said doors are moved so as to cause a flexure of said shaft; and means for rotatably supporting said shaft on said back mem-