Jan. 19, 1926. 1,570,427

C. BIE

DOOR CONSTRUCTION

Filed Feb. 7, 1925

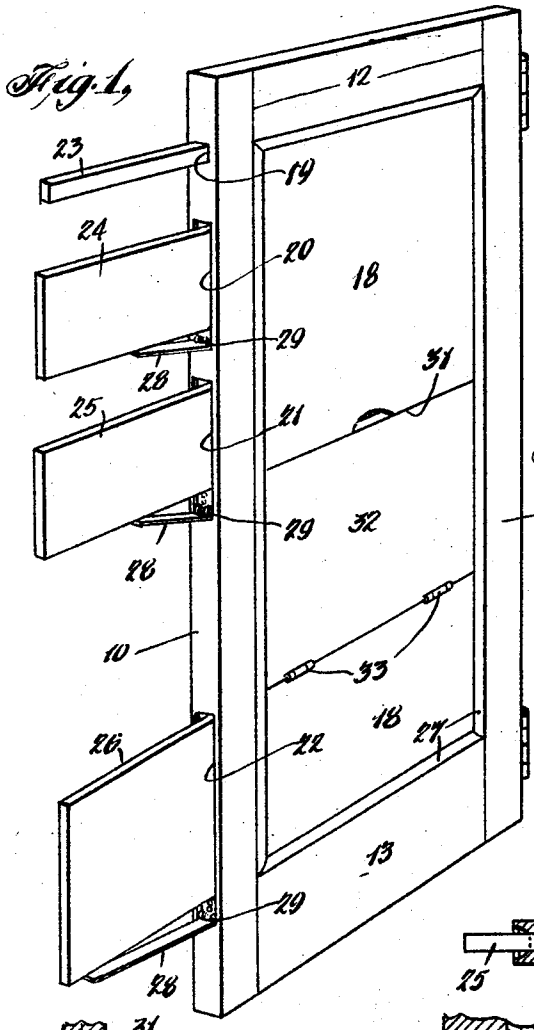


Fig. 1,

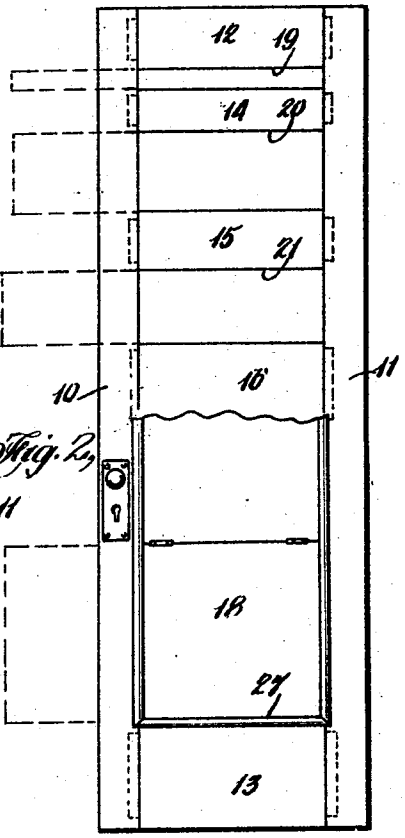


Fig. 2,

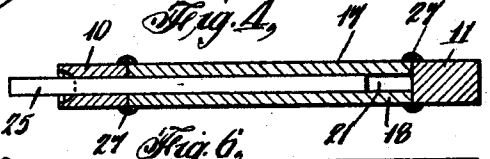


Fig. 4,

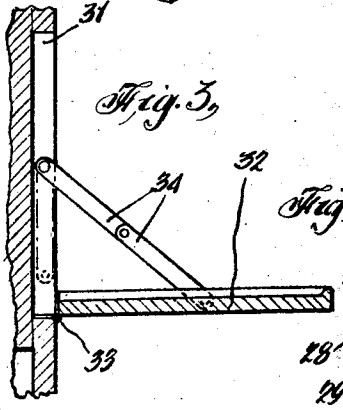


Fig. 3,

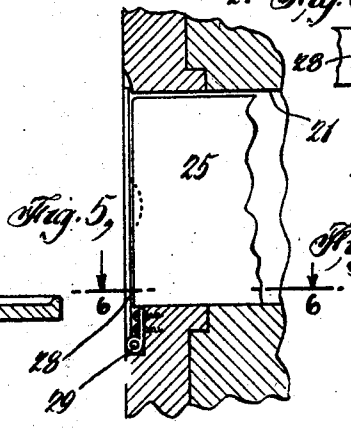


Fig. 5,

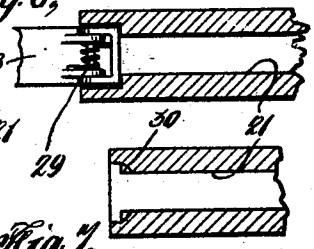


Fig. 6,

Fig. 7,

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UNITED STATES PATENT OFFICE.

CHRISTIAN BIE, OF BROOKLYN, NEW YORK.

DOOR CONSTRUCTION.

Application filed February 7, 1925. Serial No. 7,659.

To all whom it may concern:

Be it known that I, CHRISTIAN BIE, a citizen of Norway, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Door Constructions, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to doors and particularly to devices of this class as used in connection with the furnishings of a kitchen or butler's pantry, or controlling the admission to such rooms or compartments; and the object of the invention is to provide a door in which is formed a plurality of compartments in which table members, boards and the like may be placed and retained for the purpose of storage and from which such articles may be removed at will; a further object being to provide an improved method of constructing the door and to form the several compartments therein and whereby the strength and durability of the door may be sustained; and with these and other objects in view, the invention consists in a door of the class and for the purpose specified which is simple in construction, efficient in use and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a perspective view of a door made according to my invention and showing parts of the devices stored therein in an extended position.

Fig. 2 is a side view of the door partially indicating the method of its construction or formation.

Fig. 3 is a transverse section through the central portion of the door and showing a table member which I employ in an extended position.

Fig. 4 is a transverse section through one of the compartments of the door.

Fig. 5 is a longitudinal sectional view through a part of one side portion of the door illustrating one of the compartments, and the means for retaining a member therein.

Fig. 6 is a partial transverse sectional view on the line 6—6 of Fig. 5 with parts in a different position; and,

Fig. 7 is a transverse sectional view through the central portion of one of the compartments.

In carrying my invention into effect, I construct a door to be used in connection with a predetermined article of furniture or as a door controlling the admission to a room or compartment, of two vertical side frame members 10 and 11 joined together at their end portions by horizontal top and bottom frame members 12 and 13, all of said members being of the same thickness to form flush side faces to the door, and mounted between the frame members 10 and 11 at spaced intervals are other frame members 14, 15 and 16 which are of less transverse dimensions or thickness than the members 10 to 13 inclusive and which are located centrally of said frame members and to provide recesses on the opposite side faces of the door in which panels 17 and 18 are mounted to form finished faces which are preferably flush with the side faces of the frame members 10 to 13 inclusive, and the panels 17 and 18 may be composed of a single piece of wood or of a number of wood strips as may be desired.

It will be understood that the facings 17 and 18 will be secured to the frame members 14, 15 and 16 and also to the frame members 10 to 13 inclusive, and when mounted in position, side panels form between the members 12 and 14 a chamber 19, between the members 14 and 15 a chamber 20, and between the members 15 and 16 a chamber 21, and between the members 16 and 13 a chamber 22, the width of which will correspond to the thickness of the frame members 14, 15 and 16. In practice, the outer or free side member 10 of the door is provided with apertures which register with the chambers or compartments 19, 20, 21 and 22 to permit the insertion of boards or the like 23, 24, 25 and 26 into said compart-

ments, said boards or the like being of a size substantially similar to the dimensions of the compartments, and the outer ends thereof terminating when in the compartments adjacent the outer edge of the frame member 10 as may be seen in Fig. 5 of the drawing. It is also preferred that finishing strips 27 be mounted on the opposite faces of the door along the lines of junction or abutment of the frame members 10 to 13 inclusive and the panels 17 and 18.

Hinged to the frame member 10 at the lower end portion of the separate compartments 20 to 22 inclusive are closure plates 28 which are countersunk in the outer edge of the frame member 10 as clearly seen in Figs. 5 and 6 of the drawing and said plates are of slightly greater width than the corresponding dimensions of said chambers and are mounted on a spring 29 which operates to normally hold the plates 28 in a closed position and said plates serve to prevent the accidental displacement of the boards or other articles 24, 25 and 26. The frame member 10 or the outer edge thereof is also preferably recessed as shown at 30 centrally of the separate chambers or compartments 20 to 22 inclusive to facilitate the grasping of the members 24, 25 and 26 in removing the same from said compartment.

The panel 18 is also cut away or subdivided to form a comparatively large and rectangular recess 31 on one side face of the door in which a table member 32 is adapted to be mounted, said table member being hinged to the door as shown at 33 and being also coupled with the door through a link lever construction 34 which supports the table in extended and horizontal position, and this table may be used for supporting the boards or other articles thereon or for supporting china or the like, especially in pantries and kitchens where additional table space is required. It will be understood that the table member 32 is contained in the recess or compartment 31 and constitutes a part of the paneling 18 of the door, and will not when in closed and inoperative position, affect the use of the door in any way.

The boards or other articles 23 to 26 inclusive are preferably such articles as commonly employed in the home, for example as bread boards, vegetable boards, meat boards and the like, and the purpose of my invention is to provide convenient or accessible means for storing articles of this class or articles of any other kind or class, and yet have the same always at hand and ready for use, and also in the provision of the table member 32 which may be conveniently used for many purposes, and in this way, additional utility is provided for a door which may control the admission to a room or compartment or constitute a part of a cabinet or other article of furniture and by constructing the door in accordance with the method herein set out, the same may be made strong and durable and at a nominal cost; and while I have shown and described certain details of construction for carrying my invention into effect, it will be understood that I am not necessarily limited to the details of construction herein shown and described nor to the storage of the specific articles herein set out, and various other changes therein and modifications thereof may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A door of the class described fashioned from two vertical rails joined by top and bottom horizontal rails, said rails being of substantially the same thickness throughout, frame members mounted in connection with and extending from one vertical rail to the other in spaced relation, said frame members being of less thickness than said rails to form recesses on the opposite side faces of the door, and panels mounted in said recesses and secured to said rails and frame members to form a door having spaced compartments therein, said compartments being formed between the rails, frame members and panels.

2. A door of the class described fashioned from two vertical rails joined by top and bottom horizontal rails, said rails being of substantially the same thickness throughout, frame members mounted in connection with and extending from one vertical rail to the other in spaced relation, said frame members being of less thickness than said rails to form recesses on the opposite side faces of the door, panels mounted in said recesses and secured to said rails and frame members to form a door having spaced compartments therein, said compartments being formed between the rails, frame members and panels, and one of the vertical rails being apertured to register with the several compartments in the door whereby predetermined articles may be placed in said compartments.

3. A door of the class described fashioned from two vertical rails joined by top and bottom horizontal rails, said rails being of substantially the same thickness throughout, frame members mounted in connection with and extending from one vertical rail to the other in spaced relation, said frame members being of less thickness than said rails to form recesses on the opposite side faces of the door, panels mounted in said recesses and secured to said rails and frame members to form a door having spaced compartments

therein, said compartments being formed between the rails, frame members and panels, and one of the vertical rails being apertured to register with the several compartments in the door whereby predetermined articles may be placed in said compartments, and the several compartments in the door being of different vertical dimensions and adapted to receive board and rod members of different dimensions.

In testimony that I claim the foregoing as my invention I have signed my name this 5th day of Feb. 1925.

CHRISTIAN BIE.