Oct. 9, 1928. 1,686,819

A. KIRSCHBAUM

DOOR

Filed May 26, 1927 2 Sheets-Sheet 1

Fig. 1.

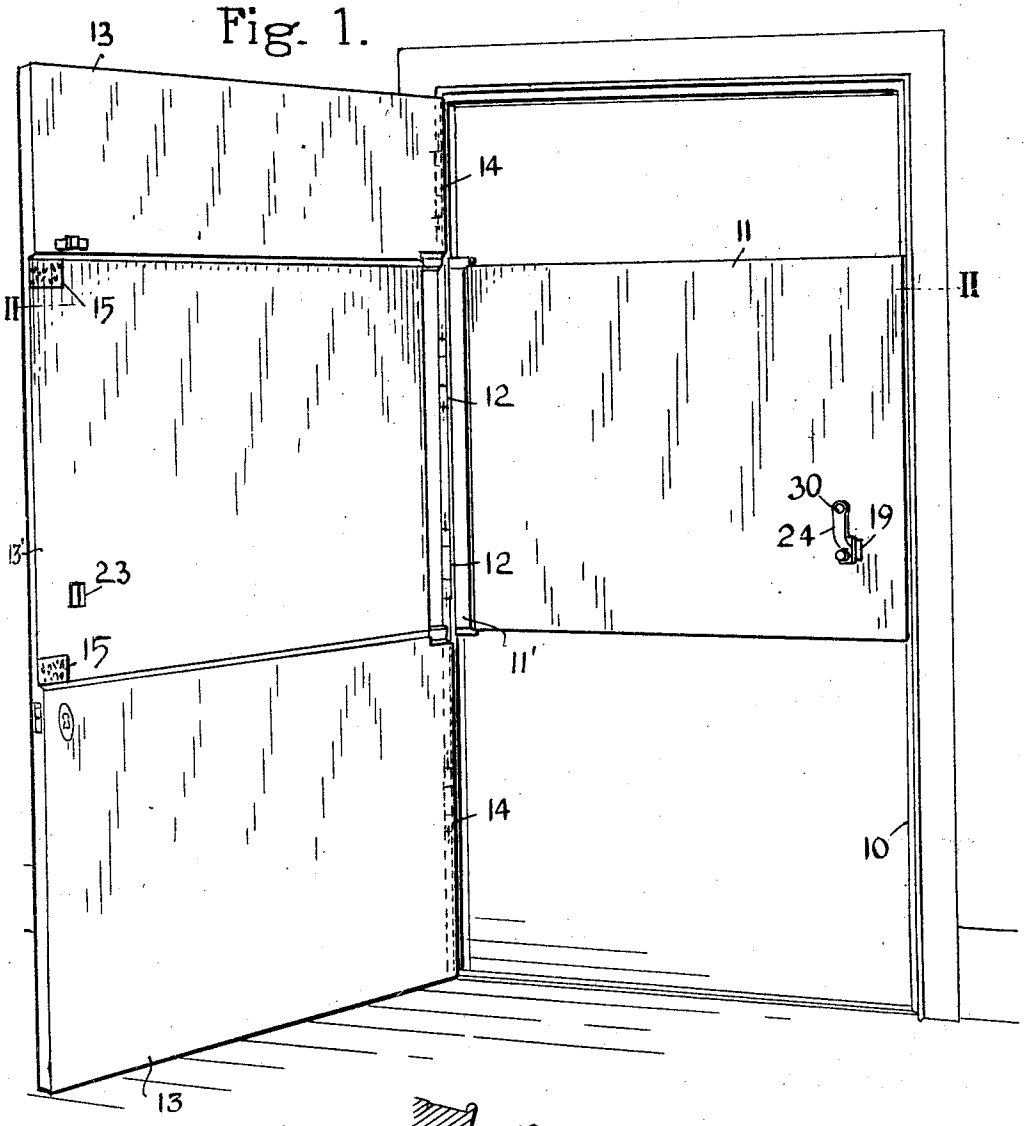
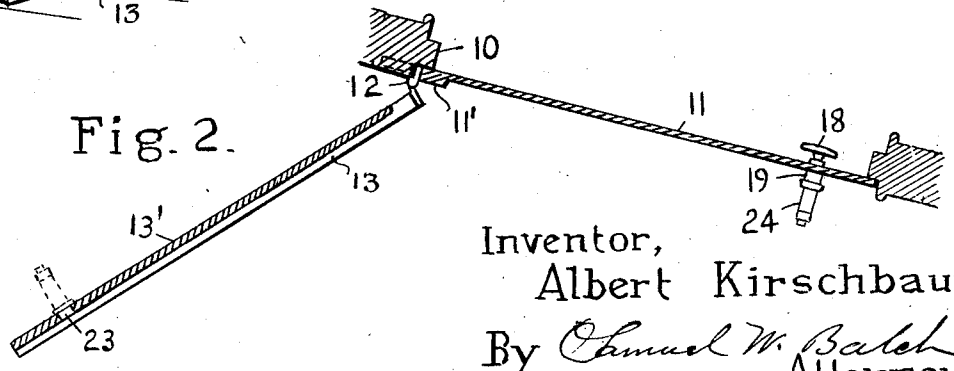


Fig. 2.



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Fig. 3.

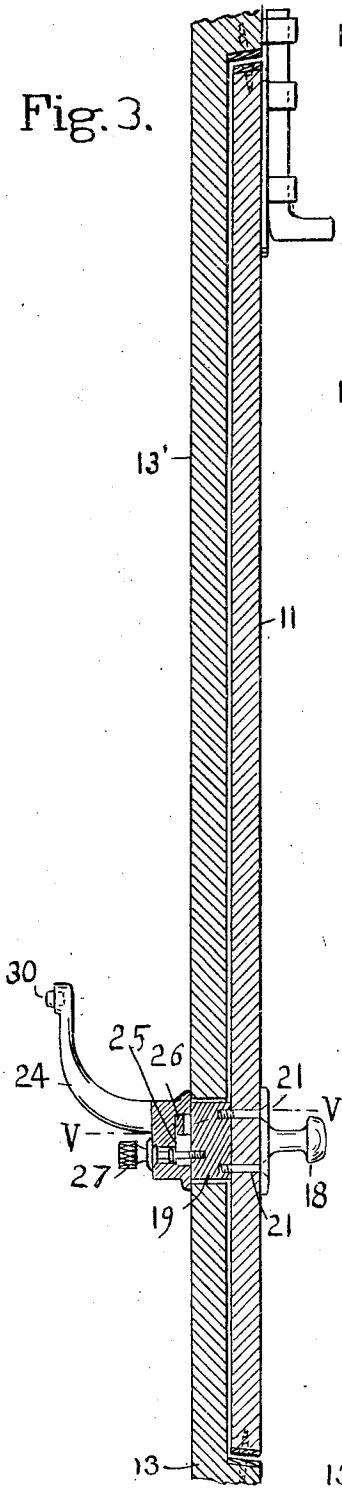


Fig. 4.

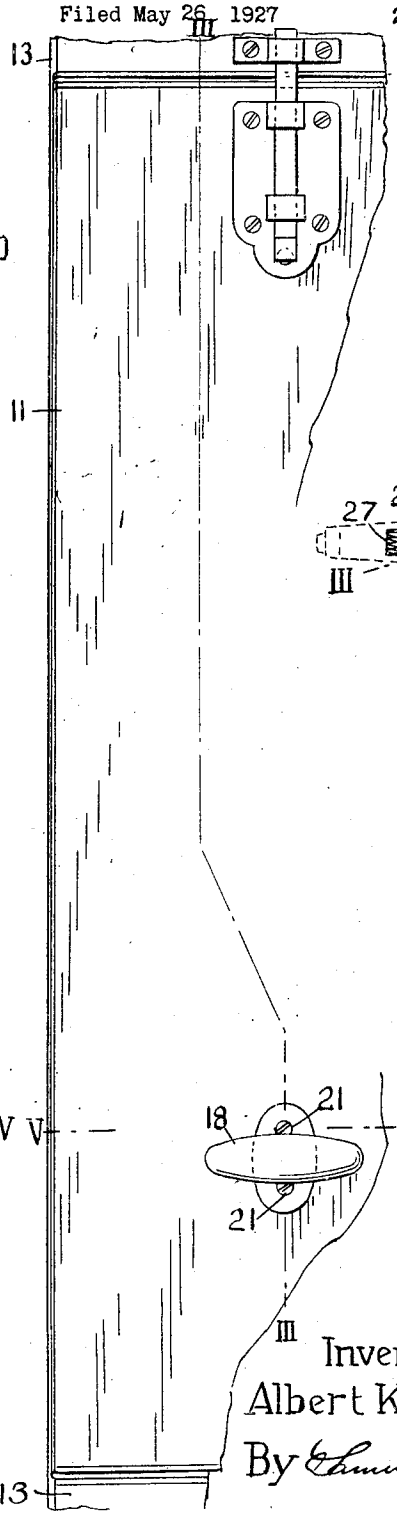


Fig. 5.

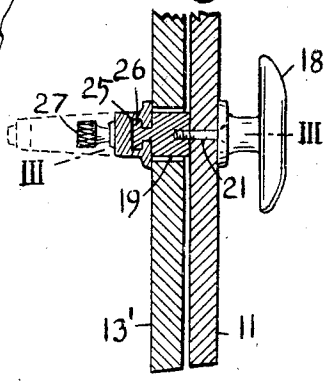
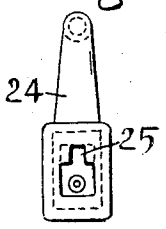


Fig. 6.



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Patented Oct. 9, 1928. 1,686,819

UNITED STATES PATENT OFFICE.

ALBERT KIRSCHBAUM, OF NEWARK, NEW JERSEY.

DOOR.

Application filed May 26, 1927. Serial No. 194,277.

The object of this invention is to provide a door, suitable particularly for hospitals, but not limited to such use, which will give privacy to the occupants of a room and at the same time afford ample ventilation and air circulation between the room and the corridor, the door also being convertible into an ordinary door in its operation by which the room can be closed and locked.

In the accompanying two sheets of drawings which form a part of this description,

Figure 1 is a perspective from the room side showing a door which embodies this invention with the main door thrown back and the screen door closed,

Fig. 2 is a horizontal section on the line II—II of Fig. 1, showing the doors in the same position.

Fig. 3 is a vertical section through the doors on the line III—III of Figs. 4 and 5.

Fig. 4 is an elevation of a portion of the two doors together as they appear from the corridor side.

Fig. 5 is a horizontal section on the line V—V of Figs. 3 and 4, taken partly through the door pulls.

Fig. 6 shows the detachable pull from the side which attaches to the door.

A door frame 10 has its middle portion screened by a screen door with a main portion 11 of half the normal door thickness and a portion 11′ adjacent to the hinge edge of normal door thickness which is attached to the door frame by hinges 12, 12. The screen door is of such vertical length and is so hung that it will be opposite the lines of sight of people of various heights when standing, but does not extend to the upper and lower portions of the frame opening. A main unitary door consisting of upper and lower portions 13, 13 of normal door thickness and a middle portion 13′ of approximately half thickness closes the upper and lower portions of the frame opening and is hinged to the door frame by hinges 14, 14, the axes of which are on the same line with the axes of the hinges for the main door. All of the hinges may be such as are shown in my United States Patent No. 1,619,578, dated March 1, 1927. The middle portion of the main door adjacent to its hinge edge is cut away and the rest of the middle portion is recessed to approximately half thickness on the screen door side so that the screen door will set in flush. The two doors when together are kept apart about a sixteenth of an inch by pads of felt 15, 15. The joints at the top and bottom of the screen door are slightly open also so that air can circulate between the doors and maintain the same temperature on both sides of both doors and keep them from warping. At the hinge edge the joints are stepped so that when the doors are together there will be no crack through which one can see.

The screen door has on the side away from the other door a fixed pull 18 and on the opposite side a pull-block 19. Machine screws 21, 21 secure one to the other. A hole 23 is cut in the main door through which the pull-block passes when the doors are both to be closed and opened together. A detachable pull 24 is attached to the pull-block. It has a base which is larger than hole through which the pull-block passes so that it serves to clamp the two doors together. The base has a T-slot 25 which is engaged by a T-head 26 formed on the pull-block. A knurled head screw 27 also connects the detachable pull to the pull-block. This pull is in the form of an upstanding hook and can be used as an arm-pull if one needs to open the door when both hands are carrying a tray. At its end is a rubber buffer button 30.

Ordinarily when the room is occupied and there is frequent occasion to pass in and out, the main door will be thrown back and only the screen door kept closed. When the doors are are to be separated and so used, the detachable pull is taken off from the pull-block and reattached after separating the doors. To insure that the screen door is kept closed, a door closer not shown may be attached to it. Especially suitable for this purpose is a concealed type of closer and check which is set in a mortice in the door frame.

I claim:

1. In combination with a door-frame, a screen door hinged to the door-frame for screening the middle portion of the frame opening, the main portion of the screen door being of approximately half of normal door thickness, and a main door for closing the upper and lower portions of the frame opening and hinged to the door frame, the middle portion of the main door being of approximately half thickness so that the screen door may be set in flush, the hinges for both doors having their axes on the same line.

2. In combination with a door-frame, a screen door hinged to the door-frame for screening the middle portion of the frame opening, the portion of the screen door adjacent to its hinge edge being of normal door

thickness and the rest being of approximately half thickness, and a main door for closing the upper and lower portions of the frame opening and hinged to the door-frame, the middle portion of the main door adjacent to its hinge edge being cut away and the rest of the middle portion being of approximately half thickness so that the screen door may be set in flush, the hinges for both doors having their axes in the same line.

3. In combination with a door-frame, a screen door hinged to the door-frame for screening the middle portion of the frame opening, a main unitary door for closing the upper and lower portions of the frame opening and hinged to the door-frame, the hinges for both doors having their axes on the same line, and the doors lying together when closed, and a detachable door-pull exterior to the main door and connected through an opening therein to the screen door.

ALBERT KIRSCHBAUM.