

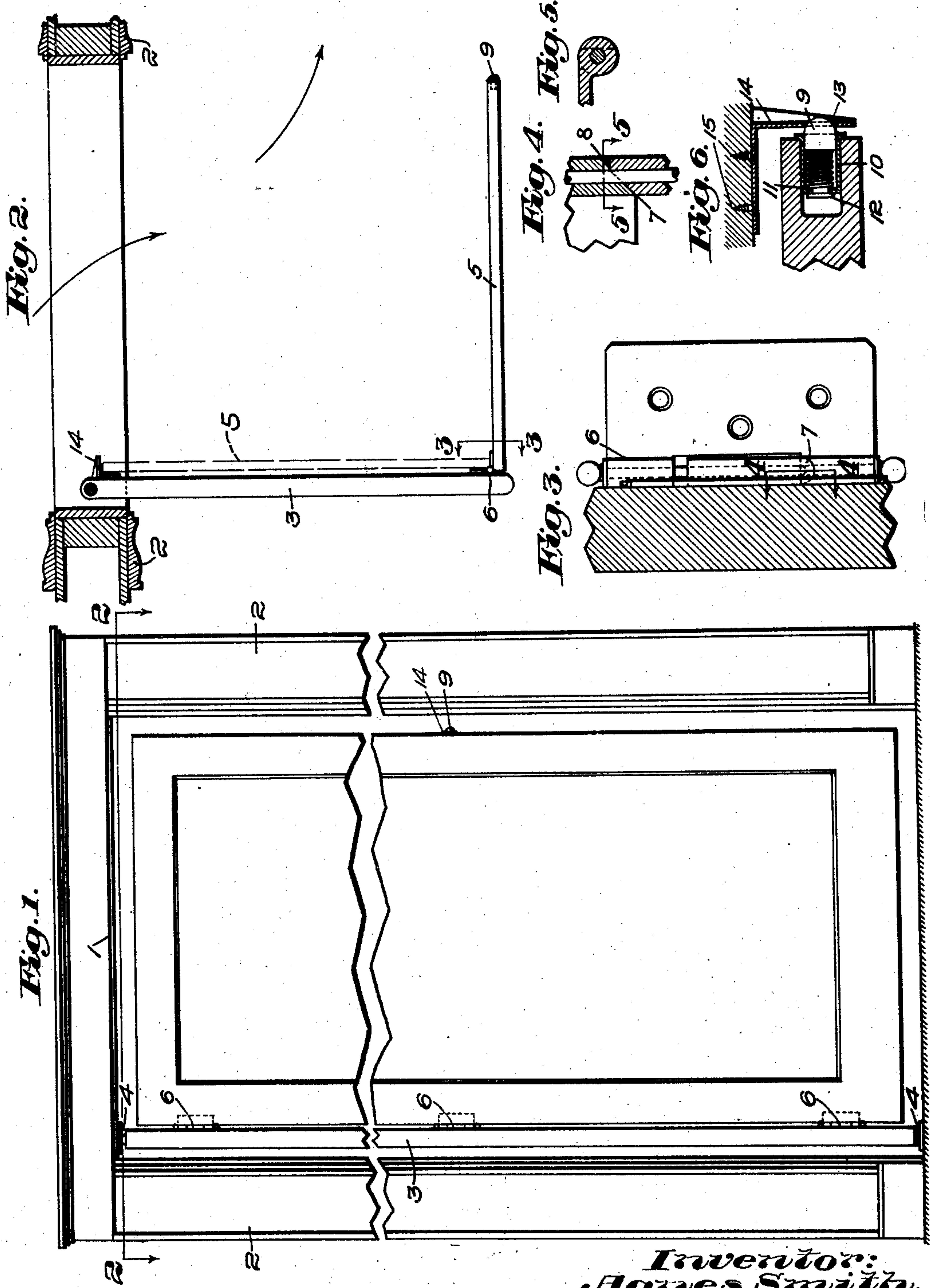
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SUPPLEMENTAL DOOR

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UNITED STATES PATENT OFFICE

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SUPPLEMENTAL DOOR

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My invention aims to provide a novel door, particularly adapted for use between rooms where free passage is desired from one room to the other, while at the same time maintaining an effective screen or obstruction of vision from one room to the other.

In the accompanying drawing I have illustrated one embodiment of my invention, wherein:—

Fig. 1 illustrates a finished door-frame equipped with a door illustrating my invention;

Fig. 2 is a horizontal section on the dotted line 2—2 Fig. 1, just above the door and showing the latter in plan view, the door being swung open and the screen door also turned into screening position;

Fig. 3 is an enlarged sectional detail upon the line 3—3 Fig. 2;

Fig. 4 is a sectional detail on the line 4—4 Fig. 3;

Fig. 5 is a horizontal sectional detail looking downward, the section being taken upon the line 5—5 Fig. 4; and

Fig. 6 is an enlarged sectional detail of a convenient fastening device for holding the screen-door in closed position upon the main door.

Referring to the drawings, in the particular embodiment of my invention selected for illustration, the door frame, Fig. 1, is indicated by the numeral 1, the same being provided with conventional finish members 2.

Within this door frame is shown a conventional door 3, herein a double-swing door, mounted upon double-swing hinges, 4, 4, of common construction, which preferably are spring hinges adapted to permit the door to be opened in either direction at will and to return the same automatically in either direction to a mid position closing the doorway. I prefer that the hinges 4, 4, or one of them, be of the well-known type of construction that will retain the door in either of its extreme open positions, that is to say, when fully opened into either room or at either side of the door-frame.

Such a door so hung upon hinges of this description is well-known in the art and is commonly used in residences to close or con-

trol the doorway between the dining room and the butler's pantry or serving room adjoining.

In preparation for or in serving a meal, when frequent passage from the pantry to the dining room and return is required, the necessity for constantly pushing back the door for passage through the doorway becomes a distinct annoyance, particularly when the butler is carrying china or articles of food in his hands. As a consequence, it is common for the door to be opened into one or the other room and there retained to permit unimpeded passage through the doorway. The objection to this, of course, is that it permits unobstructed or free vision from one room to the other.

To remove the foregoing objection, my invention comprehends hinging to the free edge of the main door a second or screen door 5, shown best in Fig. 2, the hinges being indicated at 6. This screen door is shown hinged to the usual face of the main door 3, but it might be let into the latter or otherwise more closely compacted therewith if desired.

The door 5 preferably is provided with means for retaining it in fully open position, for example, as shown in Fig. 2, where it stands at right angles to the main door 3, and this may conveniently be had by employing a type of hinge 6, such as illustrated in Fig. 3, wherein the contacting faces of two of the knuckles of the hinge are beveled as indicated at 7, Figs. 3 and 4, whereby, when the screen door is closed against the main door, as in dotted lines, Fig. 2, the swinging of one inclined hinge face 7 upon the other, will raise one hinge leaf with relation to the other, and thereby raise the screen door itself, as indicated by the separation of the hinge knuckles in Fig. 3; but, when the screen door is released to be opened to or toward its full line position, Fig. 2, its weight, acting upon the inclined hinge faces 7, will cause the door automatically to swing into its fully opened position whatever particular position that may be, until the elevated hinge knuckle gravitates down to position where the two oblique faces 7 come together, when the screen door will remain in its fully opened position.

Conveniently the beveled contacting faces of the hinged knuckles at 7 embrace about one-half the full circumference of the hinged knuckles at that point, the knuckles beyond that presenting horizontal faces 8, see Fig. 4, to furnish ample bearing for the knuckles when sustaining the screen door in its fully open position.

To retain the screen door in its closed position against the main door 3, as in dotted lines Fig. 2, any suitable latch or locking device may be employed. In the present instance I have shown a conventional spring latch 9 arranged in a socket 10 let into the edge of the screen door, the socket containing a spring 11 which presses the latch 9 normally and yieldingly outward to the limit imposed by the head 12 upon the shank of the latch. This spring-pressed latch engages a suitable opening 13 in a striker or latch plate 14, secured by screws 15 or otherwise upon the face of the main door.

In use and under normal conditions, the screen door is closed against the face of the main door and there held by engagement of the spring latch with the striker plate 14, in which condition the two doors operate as a single door and may be swung freely in either direction upon the hinges 4, which latter bring the same normally at all times back to mid position, closing the doorway.

When, however, it becomes desirable to open the main door to avoid the annoyance of frequently opening and closing it during serving periods, the main door may be opened, as shown in Fig. 2, and there held as described, and then the screen door may in turn be opened upon the main door into its full-line position, Fig. 2, whereupon a perfectly free and unobstructed passage is provided through the doorway, as indicated by the arrows, Fig. 2, while at the same time the screen door obstructs direct vision from one room to the other, and so provides an effective screen coupled with a free and open passageway.

The screen door may be of any desired height, less or shorter than herein shown, and may be made of any desired material, so as to furnish a complete obstruction of vision, or only a partial one, as desired.

My invention is not limited to the particular embodiment disclosed.

Claims:

1. The combination with a main door of a view obstructing door movably mounted upon the free edge of the main door to extend from the passage side of said main door when the latter is open for obstructing the view through the door opening.

2. The combination with a main door and means automatically to swing it into closed position from partially open position but adapted to releasably retain the same in extreme open position, of a view obstructing

door hinged to the free edge of said main door and adapted to be swung into position substantially perpendicular thereto on the passage side thereof when said main door is retained open, to obstruct the view through the door opening, or into a position parallel therewith to allow closing of said main door.

3. The combination with a double-swing main door of a view obstructing door hinged to the free edge thereof to be opened toward the passage side of said main door when the latter is open for obstructing the view through the door opening while allowing free passage therethrough.

4. The combination with a main door and means to hold it in open position, of a view obstructing door hinged to the free edge of said main door and adapted to be swung substantially perpendicular thereto on the passage side of said main door when it is open.

5. The combination with a main door of a view obstructing door hinged to the free edge of said main door and openable toward the passage side of said main door when the latter is open for obstructing the view through the door opening and having means to retain it in open position relative to and upon said main door.

6. The combination with a main door of a view obstructing door hinged to the free edge of said main door and having means to retain it in open or closed position relative to and upon said main door, said view obstructing door extending, when in open position, transversely with respect to said main door at the passage side thereof.

7. The combination with a main door of a view obstructing door hinged thereto and with means automatically to urge it toward open position and means to retain it in closed position upon and relative to the main door, said view obstructing door extending, when in open position, transversely with respect to said main door and at the passage side thereof, in spaced relation to the door opening.

8. The combination, for the purpose described, of a main door and a supplemental door movably mounted thereupon and adapted to either lie flat therewith or be extended laterally with respect to said main door on the passage side thereof and spaced from said door opening, for obstructing the view through the door opening, while allowing passage therethrough.

9. The combination, with a main door positionable at substantially right angles to its door opening, of a supplemental door carried by said main door and positionable at substantially right angles to the plane of said main door and in front of and spaced from said door opening, whereby the positioning of both doors as aforesaid will obstruct the

view through said door opening while allowing free passage therethrough.

10. The combination, for the purpose described, of a main door retainable in open position with respect to its door opening, and a supplemental view screening member carried by said main door and extending toward the passage side of said main door, when the latter is open, adjacent the free edge thereof, to obstruct the view through said door opening while allowing free passage there-through.

In testimony whereof, I have signed my name to this specification.

AGNES SMITH.