

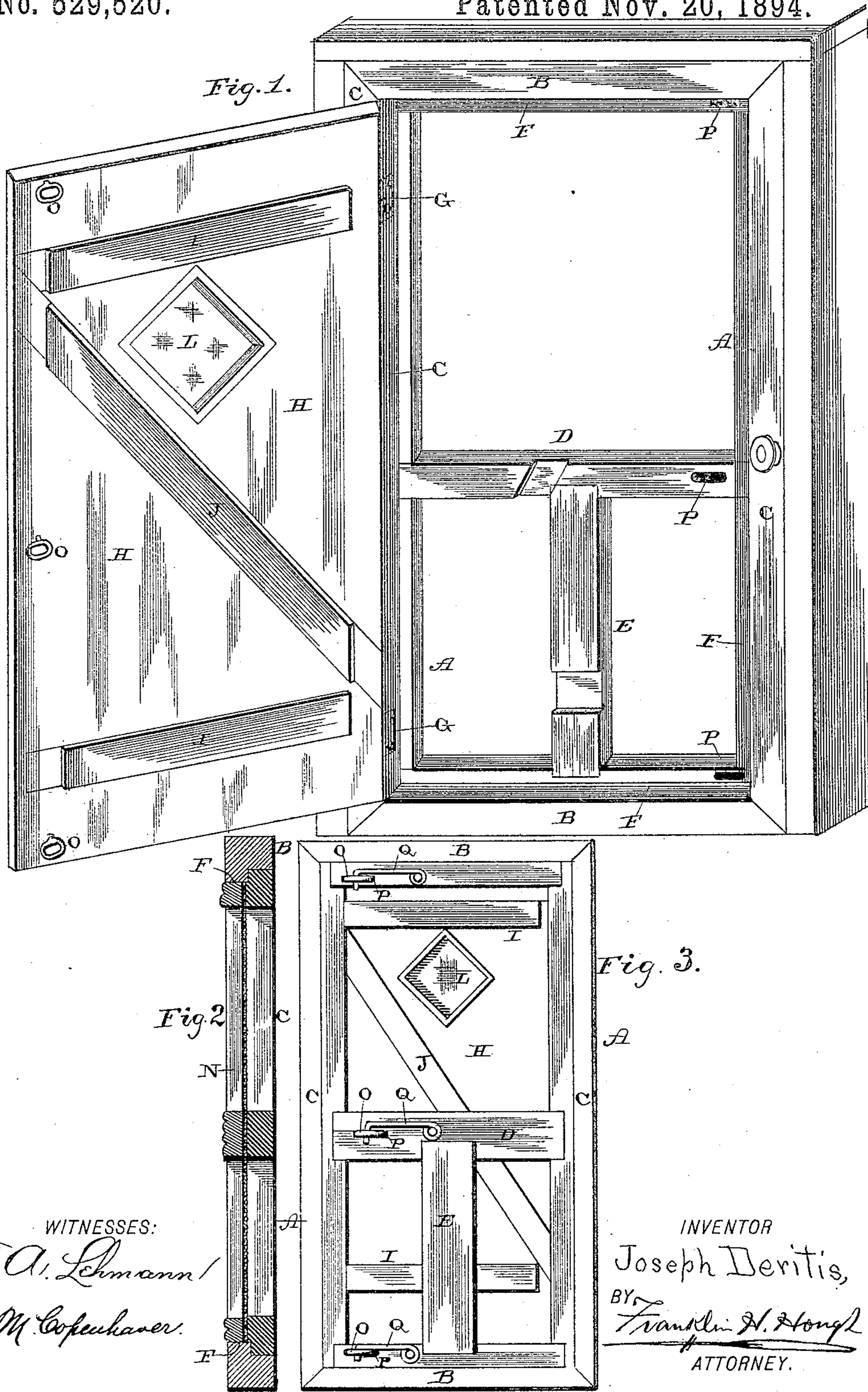
(No Model.)

J. DERITIS.

INTERCHANGEABLE STORM AND SCREEN DOOR.

No. 529,520.

Patented Nov. 20, 1894.



UNITED STATES PATENT OFFICE.

JOSEPH DERITIS, OF DETROIT, MICHIGAN.

INTERCHANGEABLE STORM AND SCREEN DOOR.

SPECIFICATION forming part of Letters Patent No. 529,520, dated November 20, 1894.

Application filed August 28, 1894. Serial No. 521,545. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH DERITIS, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Interchangeable Storm and Screen Doors; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in combined storm and screen doors; and it consists in the combination of the frame work or skeleton of the outside door, which is provided with the lower half of the hinges, and suitably braced by cross pieces, with both screen and solid panels which are provided with the upper portion of the hinges, and are to be hung upon the frame or skeleton, and fit in a recess made in the outer surface of the door so that when closed they are flush therewith, as will be more fully described hereinafter.

The object of my invention is to provide an outside door which is adapted to receive either a screen or a solid panel, so that the door can be used as a screen door during warm weather, and as a solid door during stormy weather or when it is cold, and thus obviate the necessity for having both an inside solid door and an outside screen door.

In the accompanying drawings Figure 1 is a perspective of a door embodying my invention, and having the solid panel attached thereto, in an open position. Fig. 2 is a vertical section of the door with the screen panel, in a closed position. Fig. 3 is a side elevation of the door taken from its inner side and showing the solid panel.

A represents the frame or skeleton of the door, and which consists of the two top and bottom cross bars B, and the two side bars C, and which are braced by the horizontal cross bar D, and the vertical bar E. These two bars D, E, divide the inside of the skeleton or frame A, into three panels as shown, and at

the same time they serve to strengthen the door. In the outer surface of the frame or skeleton is made the recess F which extends all the way around the inner surface of the frame, at the edge of the opening through it, and this recess F is just deep enough to receive the solid or screen panel when applied to the door. Secured to the frame or skeleton A at one side of the recess F are the lower halves G of the hinges and to the solid and screen panels the corresponding upper portions of the hinges are fastened.

During the winter months, and stormy weather in the summer, the solid panel H will be used, and thus form practically a solid door. This solid panel will be braced upon its inner side by the two horizontal cleats I and the diagonal one J, and the two cross bars D E will be recessed at those points where the cleats come in contact with them. Through the upper portion of this solid panel will be made a window L, of any desired shape or size, which may serve either as an outlook or for the purpose of giving light.

During warm weather the solid panel may be removed and a screen panel N substituted therefor, both for the purpose of ventilation and to keep out insects. When either one of these panels is closed into the door as shown in Fig. 2 its outer surface is just flush with the outer surface of the door, and both panels are provided with eyes O which pass through perforations P made through the three cross bars of the skeleton or frame A, and they are then fastened to the door so as to form practically a part thereof by the hooks Q, pivoted to the inner side of the door, and which pass through the eyes. The solid panel is provided with three of these eyes, as it forms practically a solid part of the door for a considerable portion of the year, but the screen panel is preferably provided with only one, as it will be removed, in most cases, at night and the solid one substituted for it as a matter of protection.

Having thus described my invention, I claim—

As an improved article of manufacture, an interchangeable storm and screen door comprising in combination with a skeleton A, de-

signed to hold a screen, a solid panel H
hinged to the said skeleton, and provided
with the braces I and J, which, when the
said solid panel is closed, are adapted to be
5 seated in the recesses in the bars D and E,
and the upper brace I, between the sides C
of the skeleton frame, thus securely bracing
the latter, and the fastening eyes O which are
designed to register with the perforations P

in the frame A, and be engaged by the hooks 10
Q, all substantially as shown and described.

In testimony whereof I affix my signature in
presence of two witnesses.

JOSEPH DERITIS.

Witnesses:

ZACHARY REIDELL,
VALENTINE WENDEL.