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A. A. ARMITAGE.

SCREEN DOOR.

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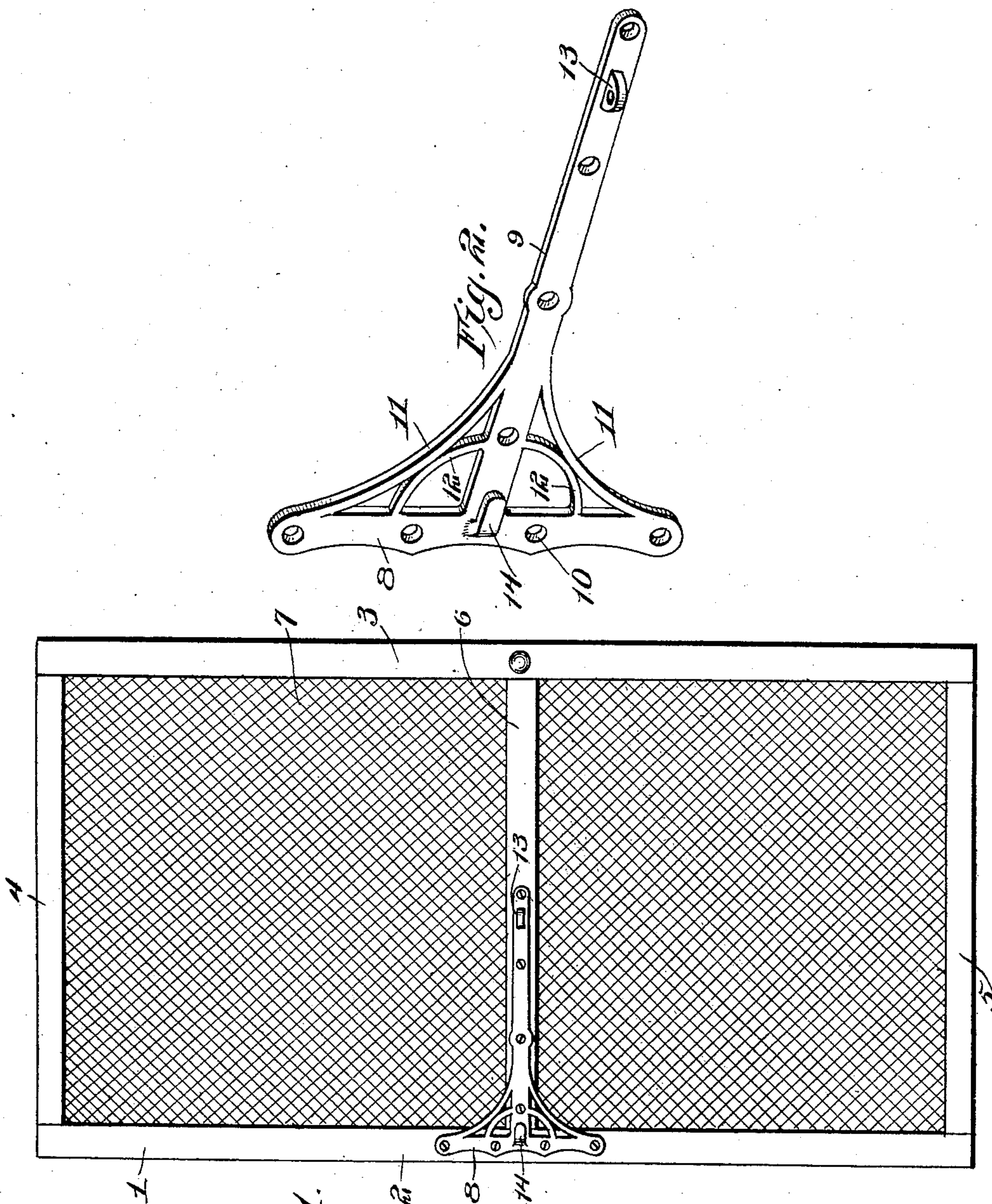


Fig. 1.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## SCREEN-DOOR.

No. 864,059.

Specification of Letters Patent.

Patented Aug. 20, 1907.

Application filed November 10, 1906. Serial No. 342,843.

*To all whom it may concern:*

Be it known that I, ALBERT A. ARMITAGE, a citizen of the United States of America, residing at Kenesaw, in the county of Adams and State of Nebraska, have  
5 invented new and useful Improvements in Screen-Doors, of which the following is a specification.

This invention relates to improvements in screen doors, and particularly to braces for such doors, the object of the invention being to provide a brace for  
10 strengthening and reinforcing the frame of the door in such manner as to prevent sagging of the door and the inconveniences resulting therefrom, as well as to furnish a means whereby a closing spring may be connect-  
15 ed with the door without exerting excessive strain thereon.

In the accompanying drawing,—Figure 1 is an inner elevational view of a screen door embodying my invention. Fig. 2 is a perspective view of the brace.

Referring to the drawing, 1 designates a screen door  
20 of ordinary construction, the same comprising the side strips 2 and 3, top and bottom strips 4 and 5, the intermediate cross piece 6 and the screen body 7. As is well known, doors of this character are of comparatively frail construction and are liable to sag under their own  
25 weight and bind against the threshold and sometimes to become disconnected at the top so that the screen body pulls away from the frame, leaving an opening through which flies may pass. The brace constituting my invention is designed to connect the frame portions  
30 in such a manner as to overcome these objections.

As shown, the brace comprises a casting embodying vertical and horizontal arms 8 and 9, the arm 8 being centrally connected to the outer end of the arm 9 and both arms being provided with openings 10 for the  
35 passage of screws or like fastenings to respectively secure the same to the strip 2 and cross piece 6 of the frame, thus securely tying such portions of the frame at the point of junction. The strip 2 forms the hinging strip of the door, and the arm 9 is made long enough to  
40 extend therefrom to the center of the strip 6, so that the latter will be effectually stayed to resist the strain from the weight falling thereon. Outer and inner curved

stays 11 and 12 respectively connect the outer ends and intermediate portions of the arm 8 with the arm 9 to increase the strength of the brace. By the use of the  
45 brace it will be apparent that the cross piece 6 will be firmly supported from the hinging strip 2 in such a manner that it will effectually sustain the weight of the strips 3, 4 and 5 and thus prevent sagging of the  
50 door.

The inner or free end of the arm 9 is preferably provided with an eye 13 for connection with the door attaching end of an ordinary coiled door closing spring, while a hook 14 is formed upon the arm 8 adjacent its point of juncture with the arm 9 for connection with  
55 the door closing spring of the "Warner" type. By this means either type of door closing spring set forth may be conveniently connected with the door, and, as the connection forms a part of the brace, it will be  
60 apparent that the pull of the spring will be sustained by the brace, thus further preventing strain upon the frame of the door.

The advantages of my improved screen door brace will be readily understood from the foregoing description, taken in connection with the accompanying draw-  
65 ings, and as its structure is simple it will be seen that it may be manufactured and sold at a low cost.

Having thus described the invention, what is claimed as new, is:—

A brace for screen doors comprising a casting of T-  
70 form providing vertical and horizontal arms adapted to be secured respectively to the hinging strip and cross piece of the door, the horizontal arm being provided at its inner end with an eye and the vertical arm with a hook at or near its point of juncture with the horizontal arm,  
75 bowed or curved outer stays connecting the ends of the vertical arm with the inner end of the horizontal arm, and reversely bowed or curved inner stays connecting the arms between the points connected by the outer stays, and bearing intermediately of their length against said  
80 outer stays.

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

ALBERT A. ARMITAGE.

Witnesses:

REUBEN BOWERS,  
H. M. RUSSELL.