

No. 885,570.

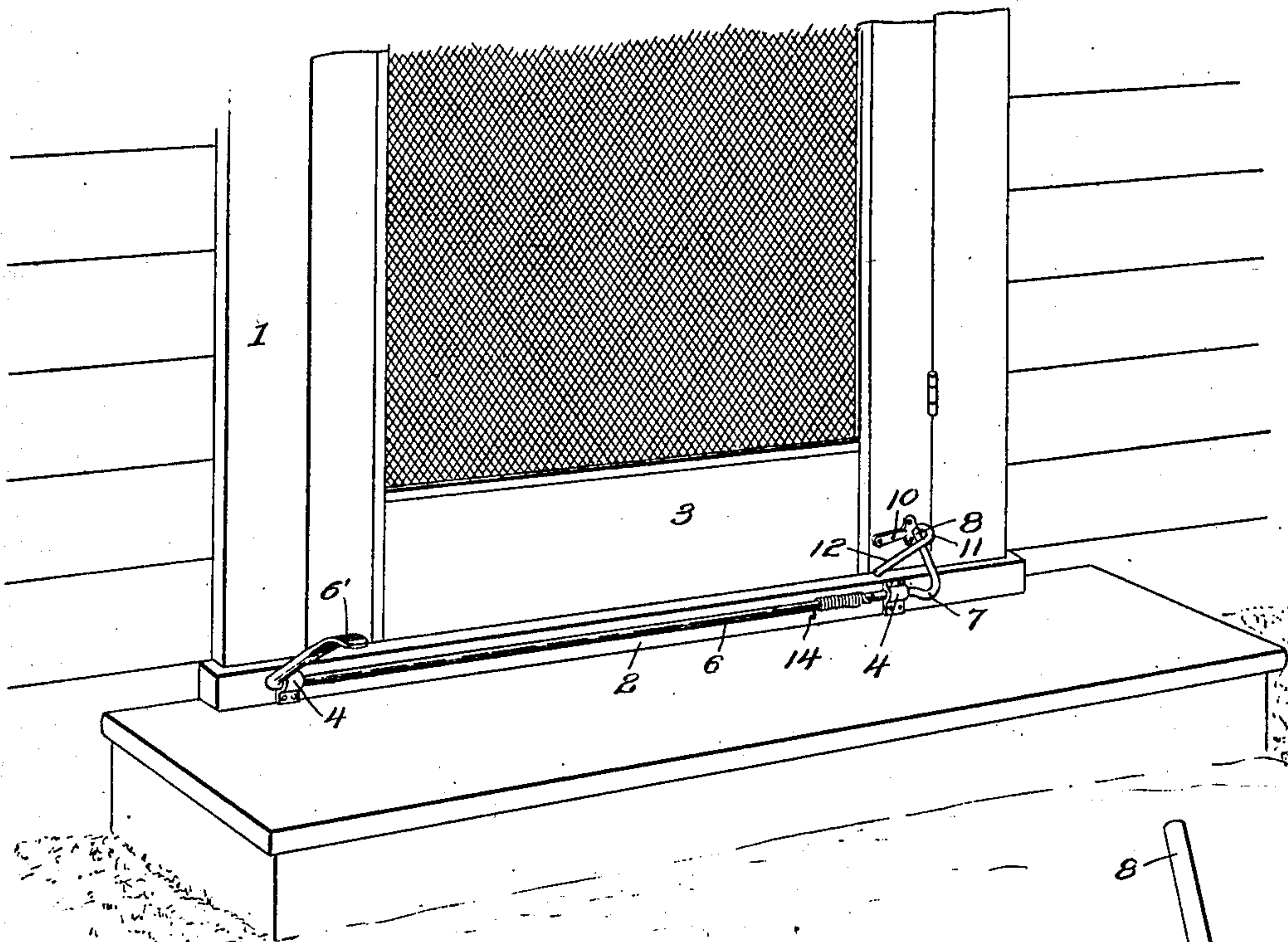
PATENTED APR. 21, 1908.

A. E. BERGQUIST.

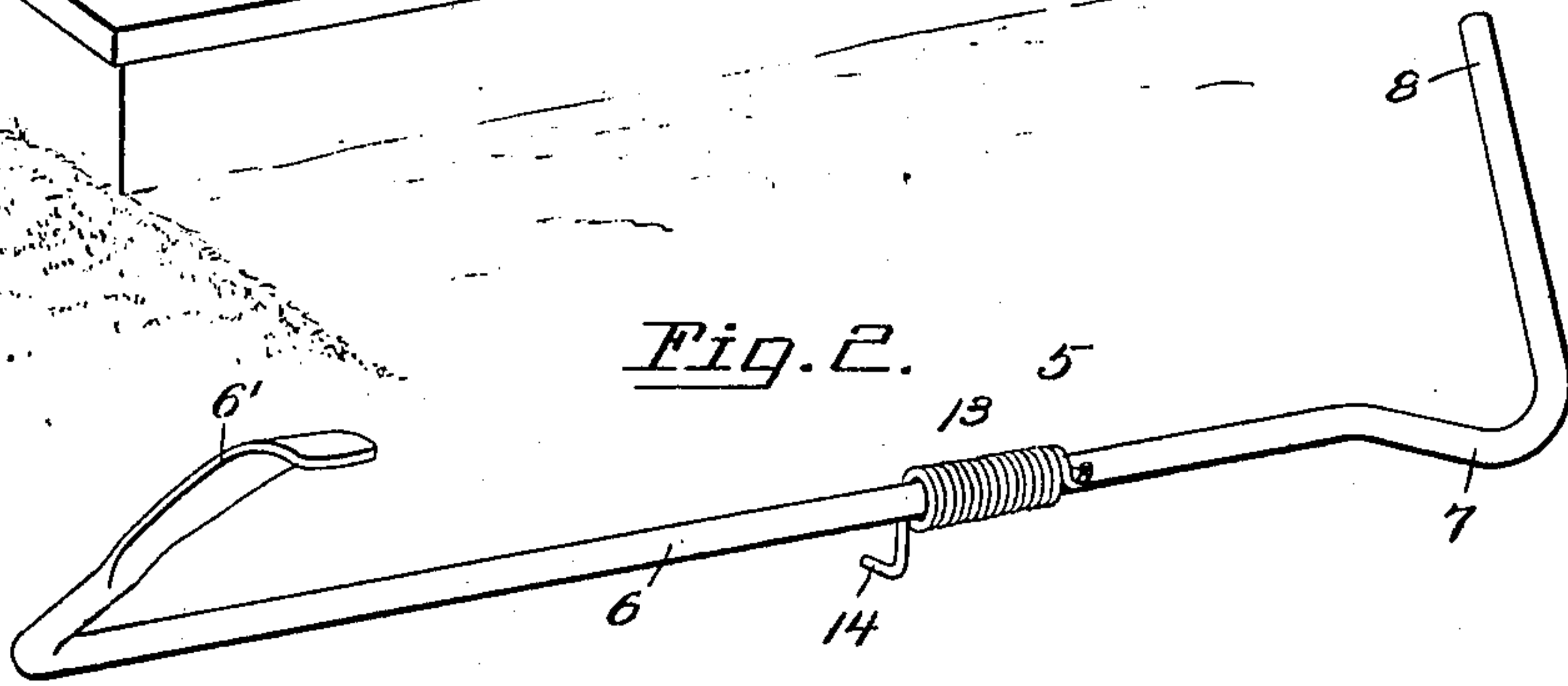
DOOR OPENER.

APPLICATION FILED FEB. 18, 1908.

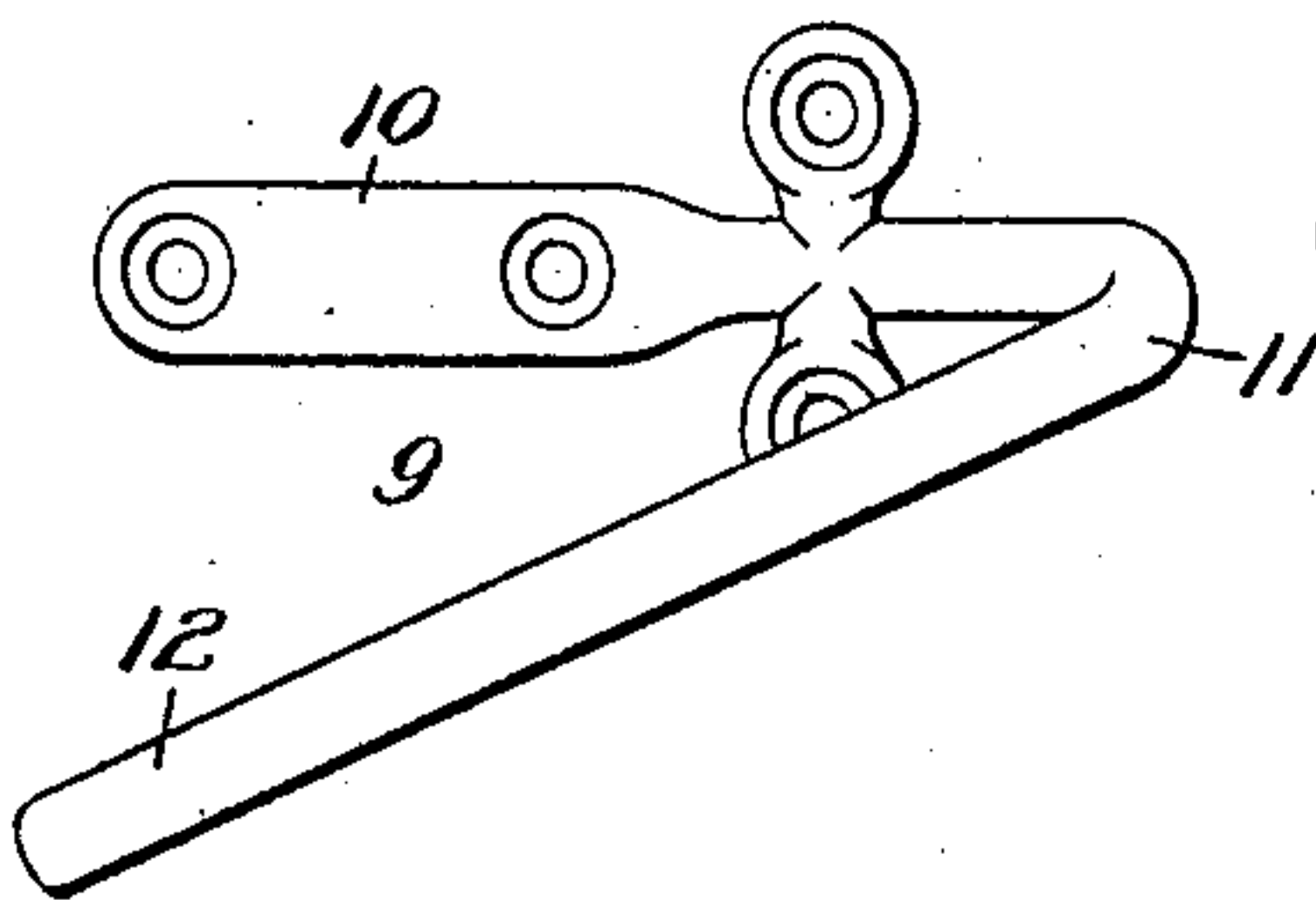
*Fig. 1.*



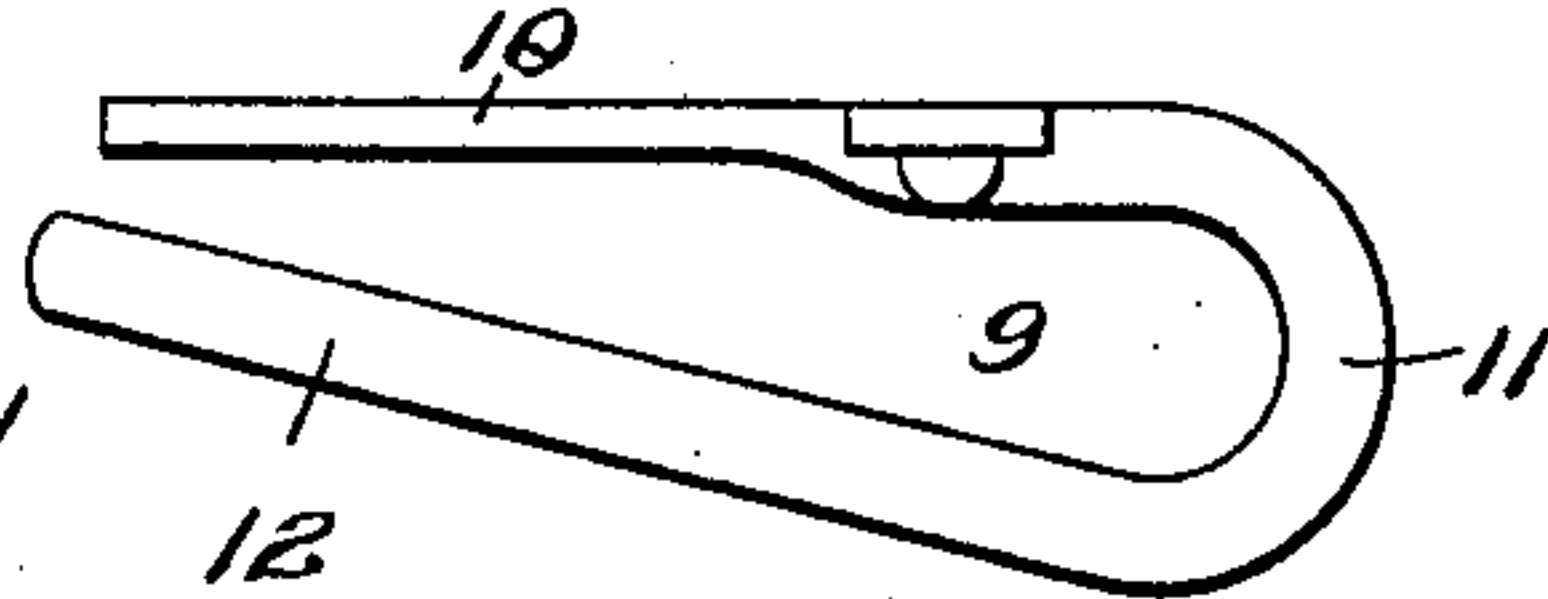
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses

*F. C. Gibson.*  
*Wm. North*

Inventor  
*Arthur E. Bergquist*

By *Victor J. Evans*  
Attorney



# UNITED STATES PATENT OFFICE.

ARTHUR E. BERGQUIST, OF LINDSTROM, MINNESOTA.

## DOOR-OPENER.

No. 885,570.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed February 18, 1908. Serial No. 416,494.

*To all whom it may concern:*

Be it known that I, ARTHUR E. BERGQUIST, a citizen of the United States, residing at Lindstrom, in the county of Chisago and State of Minnesota, have invented new and useful Improvements in Door-Openers, of which the following is a specification.

This invention relates to door openers, and the object of the invention is to provide an extremely simple and efficient device of this character, primarily intended for use in connection with screen or storm doors, whereby the door may be readily opened by the foot of an operator, thus leaving his hands entirely free.

Another object of the invention is to provide a foot operated door opener provided with means, consisting of a spring, whereby the door is automatically closed after the pressure upon the door opener has been released.

With these objects in view the invention resides in the novel construction of elements and their arrangement in operative combination, hereinafter fully described and claimed.

In the drawings, Figure 1 is a perspective view of a door provided with my improved opening device. Fig. 2 is a perspective view of the device. Fig. 3 is a front elevation of the keeper. Fig. 4 is a top plan view of the same.

In the accompanying drawings, the numeral 1 designates a door frame, 2 the sill, and 3 the door within the frame.

Connected to the sill 2 by suitable clips or bearings 4, is a door operating device 5. This operating device comprises a bar 6 extending longitudinally of the sill 2, and having one of its ends offset to provide a foot lever 6'. The opposite end of the bar 6 is provided with a right angular offset 7, having its free end bent upwardly and inclined inwardly towards the door to provide the finger 8.

Positioned upon the stile of the door 3 to which the hinges are attached is a keeper 9. This keeper 9 comprises a bearing face 10, having suitable openings and ears also provided with openings adapted for the reception of retaining elements by which the keeper is secured upon the door. The keeper is provided with a suitable bend 11, from which is projected a downwardly inclined and inwardly projecting arm 12. The

keeper 9 is adapted to be positioned upon the door 3 at a point adjacent to the end of the finger 8, and this finger 8 is adapted to lie normally, when the door is closed, within the bend 11 between the bearing face 10 and the arm 12 of the keeper. With this construction it will be seen that when pressure is exerted upon the foot lever 6', it causes the bar 6 to rotate within its bearings 4, and the finger 8 to contact and slide along the arm 12, thus effectively opening the door. When the door is closed the finger 8 contacts the bearing face 10 of the keeper, thus forcing the door closed when the arm 6 is provided with a coil spring 13, having one of its ends 14, attached to the sill 2, as illustrated in Fig. 1 of the drawings.

It will be apparent that the opener may be effectively employed on doors provided with spring hinges, and in this case the spring 13 may be dispensed with.

From the above description it will be seen that I have provided a simple, cheap and effective opening device for doors, which is adapted to be operated by the pressure of a person's foot, thus leaving the arms of the operator entirely free, and one which will automatically close the door after the pressure upon the operating device has been released.

Having thus fully described the invention what is claimed as new is:

1. The combination with a door frame and a door therefor, of a bar extending longitudinally with the sill of the door and secured in bearings thereto, the bar being provided with offsets at both of its ends, and a keeper secured to the door, said keeper providing a bearing face and a bent arm and adapted for engagement with one of the offsets of the bar.

2. The combination with a door frame and a door therefor, of a bar extending longitudinally of the sill of the door and mounted in bearings thereon, offsets upon each end of the bar, a coil spring connected with the bar and with the sill, and a keeper comprising a bearing face and an inclined inwardly extending arm secured to the door and adapted for engagement with one of the offsets of the bar.

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

ARTHUR E. BERGQUIST.

Witnesses:

P. M. QUIST,  
MAGNY ABRAMSON.