

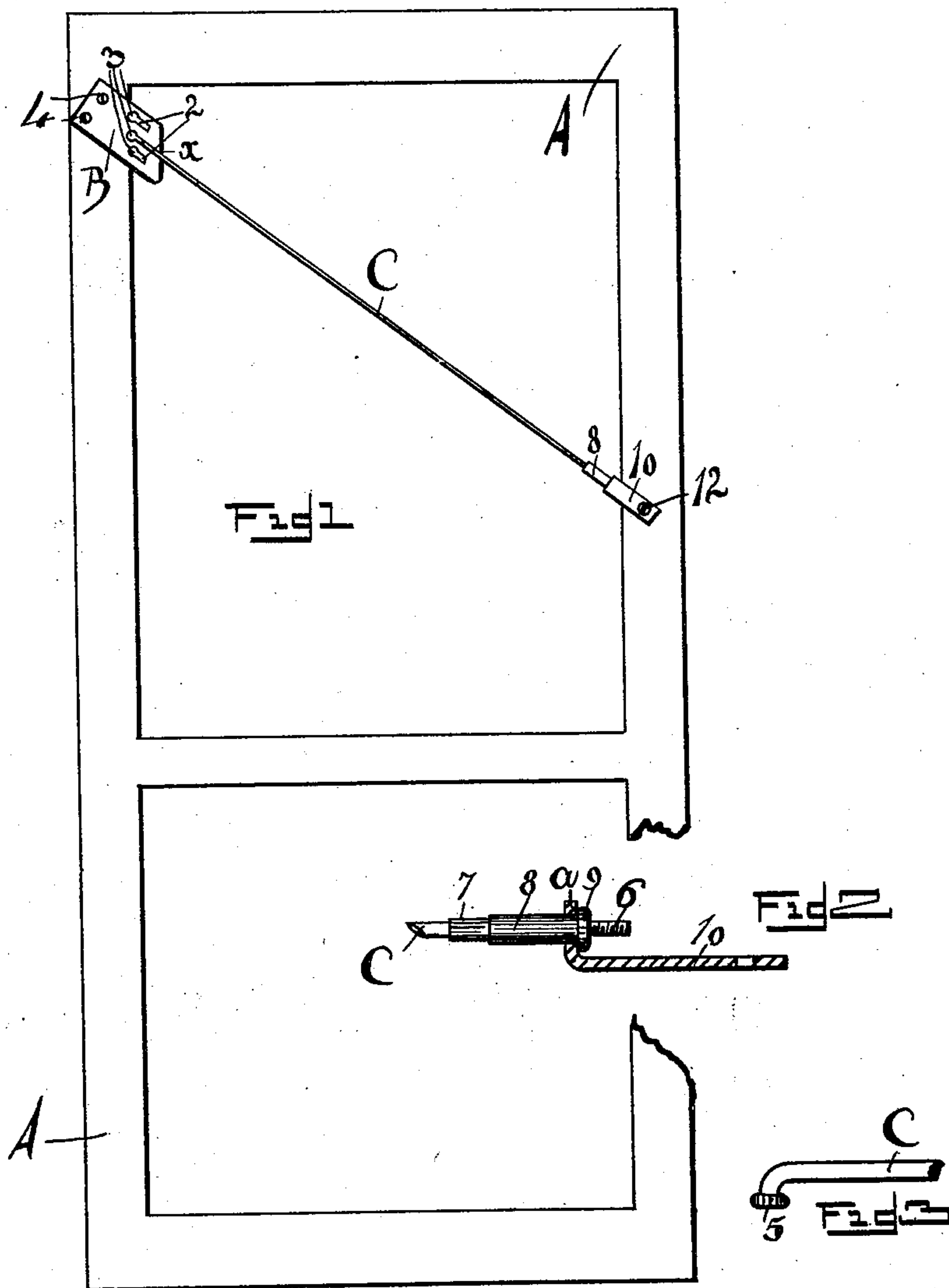
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J. GOELLER.
DOOR SUPPORT.

(Application filed Oct. 7, 1901.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH GOELLER, OF FAIRBURY, NEBRASKA.

DOOR-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 689,714, dated December 24, 1901.

Application filed October 7, 1901. Serial No. 77,830. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH GOELLER, residing at Fairbury, in the county of Jefferson and State of Nebraska, have invented certain
5 useful Improvements in Door-Supports; and I do hereby declare that the following is 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
10 same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to an improvement in door-supports.

15 The object of my invention is to provide a simple inexpensive adjustable device which may be secured to screen-door frames and like structures to prevent their sagging and insure their being squarely supported.

20 In the accompanying drawings I have shown in Figure 1 a broken U of screen-door frames provided with my support. Fig. 2 shows an enlarged broken detail disclosing the arrangement of the adjustable keeper and
25 the L-shaped keeper-supporting ear, while Fig. 3 shows a broken end of the stay-rod as used in my invention.

As has been set forth, the aim of my invention is to provide a support for doors and
30 the like, and is more especially adapted to be used in conjunction with such like swinging structures as screen-doors. These doors are usually made of light material, as they are simply intended to hold a suitable screen, and
35 as these screen-doors as a rule are intended to be normally closed or in contact with their door-frames a spring or other device is used which closes these doors whenever they are opened. The banging and slamming of these
40 light door-frames in response to the spring at once causes them to sag and work out of proper shape if they are not especially well made or provided with some supporting mechanism.

45 My device, which is intended to be used in connection with such doors as are likely to spring out and sag, comprises a slotted plate B, which is provided with a plurality of slots 2, which slots at one end are enlarged, as is
50 shown at 3. It will be noticed that these slots 2 are in a staggered position, one being above the other and a little to one side, as is

clearly disclosed. This plate B has its forward edge x cut in alinement with the slots, this, however, being merely done for the sake
55 of neatness. This plate B is intended to be secured near the top of the door upon the side to which the angles are to be attached. Secured to the door-frame upon the opposite side and a suitable distance downward is an
60 L-shaped supporting-ear 10, which is pivotally held by means of a suitable screw 12. It will be noticed that the smaller stem or leg a of this supporting-ear extends inward, as is disclosed in Fig. 1. This is done so that
65 there will be no projections adapted to catch into the people's clothing in passing through the door.

In connection with my door-support I use a stay-rod C, which is provided at one end
70 with recurved support ending in the enlarged head 5, as is clearly shown in Fig. 3, and this head 5 is of a size a little smaller than the circular opening 3, the stem or stay-rod C easily working into the slots 2, as disclosed
75 in Fig. 1. The opposite end of the stay-rod is threaded, as is shown in Fig. 2. Working upon this stay-rod and threading upon the threaded end 6 of this rod C is a sleeve 8, which is provided with an enlarged head 9,
80 the sleeve being adapted to work through a perforation within ear portion a , as is clearly shown in Fig. 2, so that this head 9 of the sleeve 8 works against the ear extension a , as disclosed in the drawings. This sleeve
85 has a portion removed, as is shown at 7, so that an ordinary wrench may be secured to this sleeve portion 7 to revolve the sleeve in thread and then slip same backward and forward upon the threaded stay end 6.
90

In adjusting my support I prefer placing the stay-rod, by means of the head 5, adjustable within the plate B, preferably in the central opening thereof, then threading the sleeve 8 downward as far as possible, and
95 finally securing the ear 10 by means of a suitable screw, as is disclosed in Fig. 1. Now should the door begin to sag it will simply be necessary to take a wrench and screw the sleeve 8 to take up the displacement and so
100 hold the door-frame A in rectangular position. Should the door sag so much that the slack or sag cannot be taken up by means of the sleeve, it is simply necessary to carry the

head 5 out of the center slot and place the same in the one above by swinging the pivotally-supported ear 10 upward, so that it comes in alinement with the next opening 5 within the slotted plate B, when the head 5 is again inserted and the sleeve again threaded upon the stay-rod.

It will be noticed that the device is exceedingly simple.

10 Having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

A door-support comprising the combination of the following instrumentalities to wit: the 15 plate B provided with keyhole-shaped slots

in a staggered position, the stay-rod C having one end recurved and provided with the enlarged head 5, the remaining end 6 of said stay-rod being threaded, the L-shaped ear 10 having its projecting portion perforated, 20 means for pivotally supporting said L-shaped ear, and the threaded sleeve 8 with the enlarged head 9 adapted to work against the ear portion *a* and threading upon said stay-rod C as shown.

JOSEPH GOELLER.

Witnesses:

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