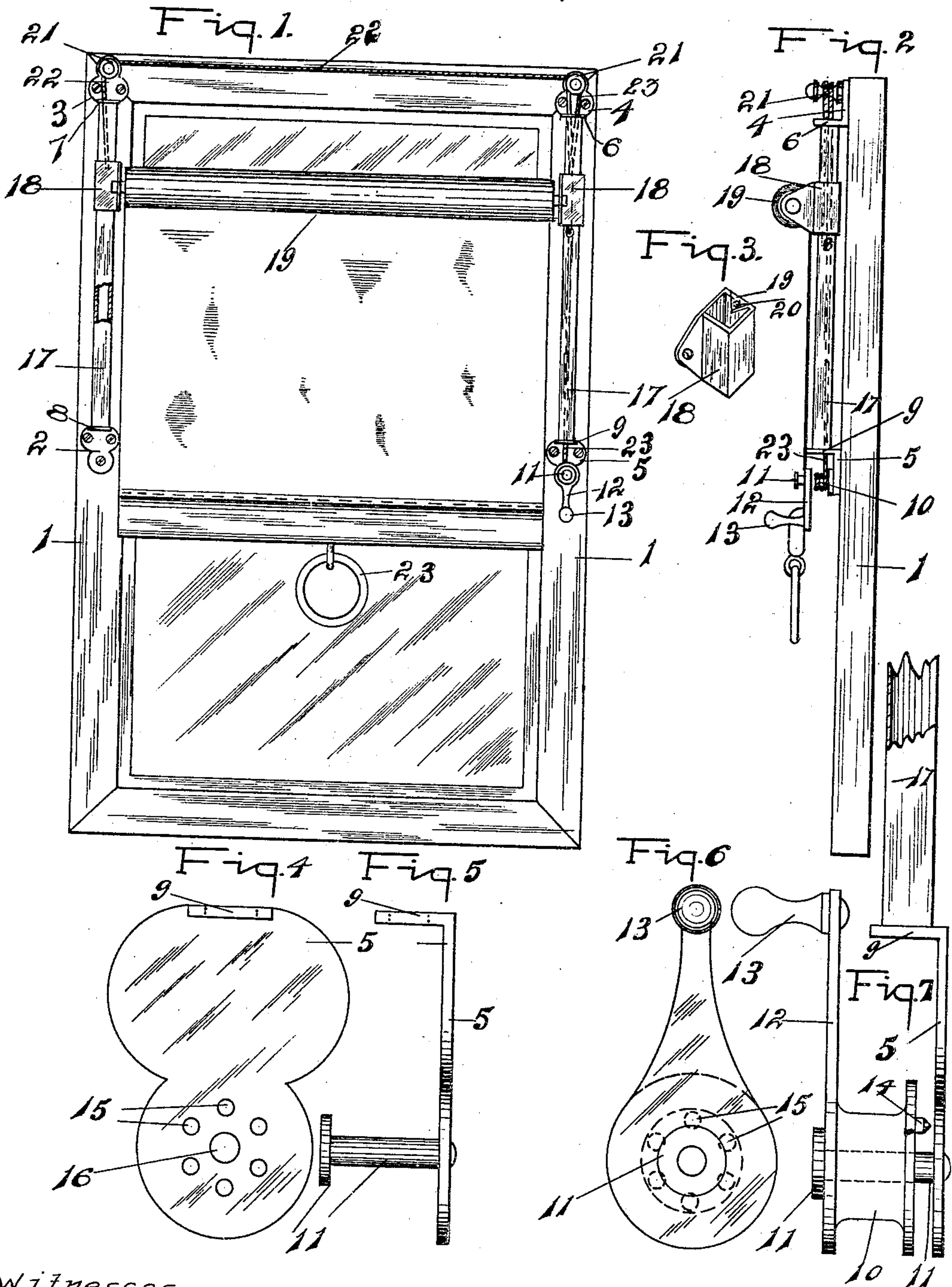


A. R. BARNETT & E. PICKEL.
 DEVICE FOR ADJUSTING WINDOW SHADES.
 APPLICATION FILED FEB. 17, 1909.

940,226.

Patented Nov. 16, 1909.



Witnesses
 Alva J. Pickel.
 May.

Inventors
 Arthur R. Barnett.
 Elsworth Pickel
 Attorney.
 Thomas Bilyeu.

UNITED STATES PATENT OFFICE.

ARTHUR R. BARNETT AND ELSWORTH PICKEL, OF PORTLAND, OREGON, ASSIGNORS TO
JAMES B. GODFREY, TRUSTEE, OF PORTLAND, OREGON.

DEVICE FOR ADJUSTING WINDOW-SHADES.

940,226.

Specification of Letters Patent.

Patented Nov. 16, 1909.

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To all whom it may concern:

Be it known that we, ARTHUR R. BARNETT and ELSWORTH PICKEL, citizens of the United States, residing, respectively, at 541 Tillamook street and 1029 East Madison street, both of Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Device for Adjusting Window-Shades, of which the following is a specification.

In ventilating a room the best results are obtained by lowering the upper window sash, but many times poor results are obtained because the shade does not permit the free passage of the air in or out of the opening thus made. To obviate this, we herewith illustrate a device which permits of the lowering of the shade and the full benefit of the opening made by the lowering of the sash for ingress or egress of the air. We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of the complete window frame showing the shade in position, also the adjusting device in detail. Fig. 2 is a side view of the same. Fig. 3 is a perspective view of the slide which holds the shade. Fig. 4 is a front view of one of the brackets for holding the guides upon which the slides move; this bracket differs from the others in that to it is fastened the reel upon which the cord is wound for raising and lowering the shade. Fig. 5 is an edge view of the same. Fig. 6 is a front view of the reel upon which the cord is wound. Fig. 7 is a side view of the same, showing it in position upon the bracket.

Similar letters refer to similar parts throughout the several views.

1 is the window frame to which the adjusting device is secured.

2 is a bracket which is bent at its upper end 8 to which is fastened the lower end of guide 17. 3 is another bracket to which the upper end of guide 17 is secured. 4 is a similar bracket to 3, it being for the same purpose. 5 is another bracket which is on the lower extremity of the guide which is secured to 4. Bracket 3 is bent at right angles on its lower extremity as shown at 7. Bracket 4 is bent at right angles on its lower extremity as shown at 6. Bracket 5 is bent at right angles on its upper extremity as shown at 9. The purpose of these

right angle bends is to permit of the fastening of guides 17 to them a sufficient distance from the window frame to permit of slides 18 passing up or down them without coming in contact with frame 1.

11 is a cylinder bearing which passes through 10, but is of greater length than the thickness of 10, terminating on its outer end in a larger diameter than that of the bearing portion and is rigidly secured to 5, its axial center being perpendicular to the plane of 5.

12 is a continuation of the outer surface of the reel 10 and to which handle 13 is directly attached.

14 is a projection on the inner surface of reel 10; the center of pin 14 is the same distance from the center of its rotation as is the distance of the centers of the circles 15 from their center.

The cylinder bearing 11 passes through 5 at 16 with reel 10 mounted upon the same; it will then be seen that 14 may be made to engage in holes 15 which are of sufficient diameter to admit of the same. When it is desired to operate the reel it is moved outward upon its bearing 11 until 14 disengages with hole 15, the reel is then rotated until it is desired to secure it into some desired position; this is accomplished by sliding it inwardly upon 11 until 14 engages with one of the holes 15.

17 are guides which are preferably made of a channel form with the opening of the channel toward the window frame 1.

18 are slides mounted upon guides 17 and having a projection 19 on the upper and inner side which projects through and into the channel form of guides 17.

20 is an opening through 19 and which is for the purpose of allowing the cord to be attached which is for raising and lowering it.

21 are bearings which are attached to brackets 3 and 4.

22 is a cord which is attached to 18 and which passes over bearing 21, down through hollow guide 17 and which is attached to cord 23 below slide 18. 23 is another cord which is attached to reel 10, passes up through guide 17, over bearing 21 and down through the same guide to slide 18.

To operate the adjustable window shade device it is only necessary to operate reel 10 by means of handle 13. By turning the

reel in one direction the shade will be raised, while operating it in the other the shade will be lowered, it being retained in the desired position by causing pin 14 to engage in
5 openings 15.

Having thus described our invention, we desire to make the following claim:

In means of the class described, the combination of a window frame, hollow guides at
10 opposite sides thereof, supporting members at the top of the frame coacting with said guides, rollers mounted on said supporting members, brackets movable vertically on the guides, a shade supported in said brackets,
15 a winding device comprising a handle and drum rotatably mounted on one side of the frame, a flexible connection connected with the bracket remote from the winding device and extending over the rollers aforesaid, an-
20 other flexible connection secured to the

bracket adjacent to the winding device and passing over the adjacent roller, a winding connection secured to the winding device, and having connection with the aforesaid flexible connections and being arranged in the adja- 25 cent hollow guide, the drum of the winding device having a projection and being movable lengthwise of its axis, and a plate supporting said winding device and having openings to receive the projection of the 30 winding drum for adjustment of the latter.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

ARTHUR R. BARNETT.
ELSWORTH PICKEL.

Witnesses:

ALVA J. PICKEL,
B. MAY.