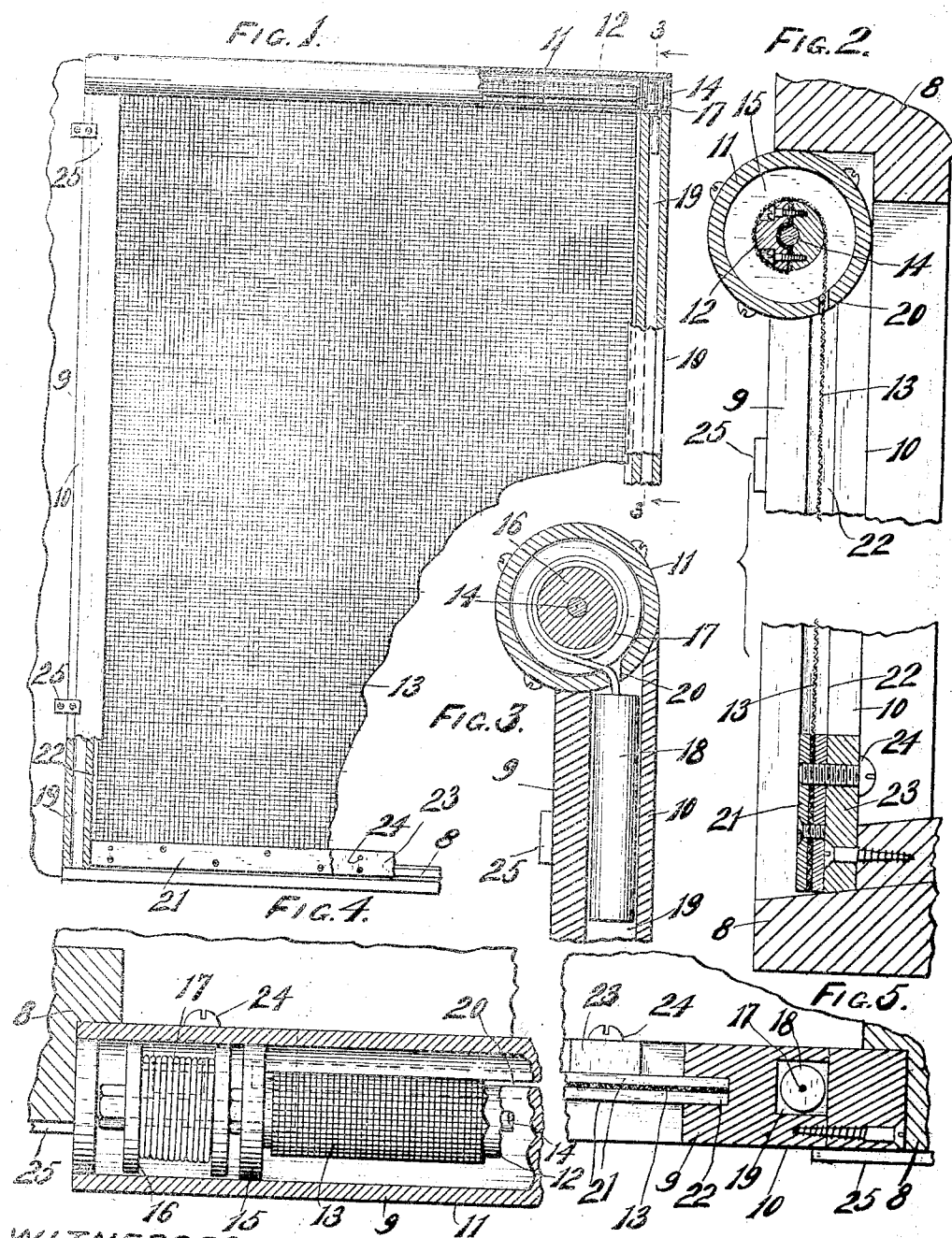


R. ORME.
 ROLLER SCREEN.

APPLICATION FILED JULY 30, 1910.

992,241.

Patented May 16, 1911.



WITNESSES.

L. A. Thuermer.
 Laura A. Kelley

INVENTOR.

Robert Orme
 By Benedict Morsell & Caldwell
 ATTORNEYS.

UNITED STATES PATENT OFFICE.

ROBERT ORME, OF RACINE, WISCONSIN, ASSIGNOR OF ONE-HALF TO JOHN M. EVANS, OF RACINE, WISCONSIN.

ROLLER-SCREEN.

992,241.

Specification of Letters Patent.

Patented May 16, 1911.

Application filed July 30, 1910. Serial No. 574,641.

To all whom it may concern:

Be it known that I, ROBERT ORME, a citizen of the United States, residing in Racine, in the county of Racine and State of Wisconsin, have invented new and useful Improvements in Roller-Screens, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention relates to improvements in roller screens of that type in which the screen is adapted to be raised and lowered by roller means, and when rolled up is substantially covered by its container.

One of the objects of this invention is to provide a screen which is adapted to be fastened to or forming part of a window frame as a permanent fixture.

A further object of the invention is to provide a screen which may be easily raised or lowered and which will remain in any position to which it has been moved.

With the above, and other objects in view, the invention consists of the screen and its parts and combinations as set forth in the claim, and all equivalents thereof.

In the accompanying drawing in which the same reference characters indicate the same parts in all of the views: Figure 1 is a side view of a screen embodying the improved construction, parts broken away to show interior construction; Fig. 2 is a medial vertical sectional view of the screen, on a larger scale; Fig. 3 is a vertical sectional detail view taken on line 3-3 of Fig. 1; Fig. 4 is a horizontal sectional detail view of the upper portion of one end of the screen; and Fig. 5 is a horizontal sectional detail view of a side portion of the screen.

Referring to the drawing the numeral 8 indicates a portion of a window frame of ordinary construction to which is fastened the screen frame 9. The screen frame consists of two side guide members 10 joined together at their upper ends by a roller holding tube 11. A screen roller 12 formed of two half sections fastened together by screws, is adapted to hold therebetween the upper end of a wire screen 13 formed of ordinary flexible material. A rod 14 positioned medially, longitudinally between the half sections extends from each end of the roller and is journaled in bearings 15 which form partitions in the holding tube. The

outer ends of this rod are provided with drums 16 around which cords 17 having counterbalancing weights 18 connected to their free ends are wound. The cords pass through openings provided in the tube and the weights connected thereto play up and down in the weight recesses 19 formed in the side guides. The screen which is fastened between the half sections is wound therearound in the opposite direction to the windings of the cords and extends through a screen slot 20 provided in the holding tube. The lower edge of the wire screen is fastened between two metal strips 21 which serve to form a firm lower edge and to hold the side edges of the screen properly guided in the side guide grooves 22 formed in the side guide members 10.

Holding plates 23 fastened to the window sill stop of the window frame by screws are adapted to be connected to the metal strip of the screen by screws 24 which are threaded therein when the screen is drawn down to cover the window opening. The side guide members are each formed of two pieces fastened together by screws for convenience in cutting the weight recesses.

The screen frame is fastened to the window frame by means of frame plates 25 which are connected to said frames by screws.

From the foregoing description it will be seen that a screen is provided in which the wire screen may be drawn up into the tubular holder during the winter months or at other times and it will be completely covered and protected from the elements and when desired it may be easily drawn down and fastened to the holding plates from the inside of the room. The flexibility of the fabric forming the wire screen permits it to be wound and unwound on the roller without danger of breaking.

What I claim as my invention is:

A screen, comprising a frame having grooved side members provided with weight recesses, said side members connected together at their upper ends by a holding tube provided with an elongated slot in its lower portion, a roller positioned within and journaled in the holding tube, drums provided on opposite ends of the roller, cords wound on the drums and extending into the weight recesses and provided with counterbalancing

weights, a screen fabric wound on the roller
in a direction opposite to the direction of
winding of the cords on the drums, said
fabric extending through the slot of the
tube, a strengthening strip connected to the
5 lower edge of the fabric and extending into
the grooves of the side members to guide the
fabric, means for fastening the frame to a

window frame, and means for fastening the
strengthening strip to the window frame. 10

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

ROBERT ORME.

Witnesses:

W. S. UNDERWOOD,
ARTHUR KINSEY.