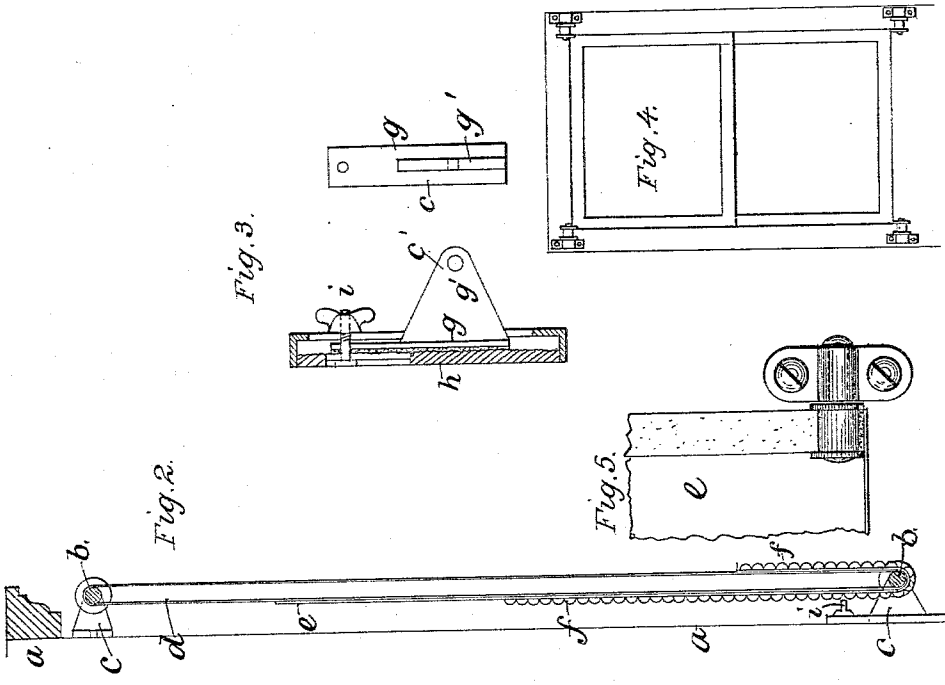
(No Model.)

W. McMANES & J. C. LOSEE.

ADJUSTABLE WINDOW CURTAIN.

No. 331,901. Patented Dec. 8, 1885.



Attest
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UNITED STATES PATENT OFFICE.

WILLIAM McMANES AND JACOB C. LOSEE, OF SUMMIT, NEW JERSEY.

ADJUSTABLE WINDOW-CURTAIN.

SPECIFICATION forming part of Letters Patent No. 331,901, dated December 8, 1885.

Application filed April 20, 1885. Serial No. 162,868. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM MCMANES and JACOB C. LOSEE, citizens of the United States, residing at Summit, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Adjustable Window-Curtains, of which the following is a specification, reference being had to the accompanying drawings.

Our invention relates to an adjustable window-shade arranged so that light may be admitted through the upper portion of the window while the lower portion remains covered by the shade, and vice versa.

The following is a full, clear, and exact description of our invention.

The first part of our invention consists of two rollers, one of which is located on the upper portion of the window-frame, the other on the lower portion thereof. The ends of the rollers are supported by suitable bearings, the two lower ones having an adjustable device connected therewith. Over these rollers travel two endless belts of felt, tape, cords, chains, &c., with a sheet of flexible material mounted on the outer portion thereof and serving as a curtain or shade. On the outer side of the curtain or shade are secured slats of stiff material adapted to give stiffness to the shade.

The second part of our invention consists of short rollers arranged at the upper and lower portion of the window, and adapted to carry an endless belt having a curtain or shade connected therewith.

In the drawings, Figure 1 represents a front elevation of our invention. Fig. 2 is a vertical section thereof. Fig. 3 is a detached detail view of the adjustable device for holding the rollers in position and to secure the proper tension of the endless bands, to hold the weight of the blind, curtain, or shade. Fig. 4 is a modification, in which is shown the short rollers. Fig. 5 is a detached detail view of the short roller.

Similar letters refer to similar parts throughout the drawings, in which—

a represents the window-frame. *b b'* represent the rollers. *c* are fixed bearings, supporting the upper roller, *b*. *c'* are the adjustable devices for holding the lower roller, *b'*, in position. *d* are the endless belts arranged at each end of the rollers *b b'*. To these belts is secured a sheet of flexible material, *e*, extending from one to the other, and thereby forming a shade or curtain. The outer portion of the shade or curtain is mounted with thin slats of stiff material *f*, thus giving stiffness to the shade.

It will be obvious that the curtain may be raised, so as to admit light through the upper portion of the windows and at the same time keeping the lower portions shaded, and vice versa, and it is evident that this curtain may be operated so as to have either the slats or the figured curtain presented to the interior of the room.

In Fig. 3, *g* is a sliding tongue provided with a projection, *g'*, which projection *g'* forms the bearings *c'*. Through the upper end of this tongue is passed a threaded screw, which also passes through a slot in the base-plate *h*, so arranged that the screw may be moved parallel with said base-plate, thus enabling the tongue to be moved, and, when properly adjusted, to be locked in position by the thumb-screw *i*. On the lower surface of the tongue *g* is fixed a thin layer of soft rubber or leather, adapted to readily catch against the rough surface of the base-plate *h*, thus preventing the sliding tongue from slipping.

In Figs. 4 and 5 are shown modified forms of our invention, consisting of stub-rollers, to be used in lieu of the rollers extending across the front of the window.

We do not wish to confine ourselves to any particular way of fastening the rollers to the window-frame, as the devices carrying the rollers may be secured above and below the window-frame, which would be preferable in some instances; neither do we wish to confine ourselves to any particular material of which the curtain and endless belting should be made, as various materials may be used without departing from the spirit of our invention.

We are aware that a window-shade formed of slats held together by connecting-links and mounted on rollers operated by a cord, has heretofore been made. We are also aware that an adjustable roller for tightening the cord

has heretofore been used. We are further aware that a flexible curtain or shade has heretofore been mounted on endless cords running over rollers; but we are not aware that a curtain was ever before made like that described in the specification, and pointed out in the claim.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, substantially as shown and described, consisting of the rollers *b b'*, fixed bearings *c*, adjustable tightening device *c'*, endless belts *d*, flexible material *e*, and slats *f*, the whole forming a complete working device.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM McMANES.
JACOB C. LOSEE.

Witnesses:
F. R. LITTELL,
E. G. POTTER.