

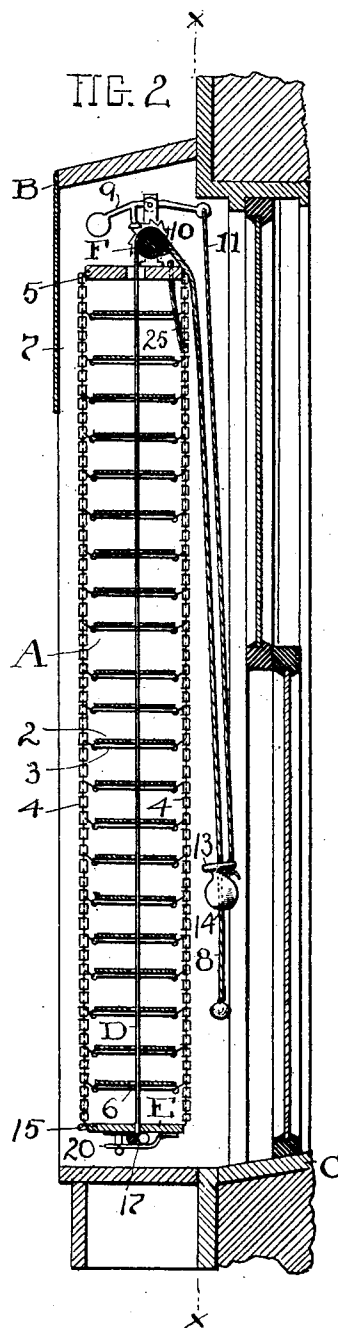
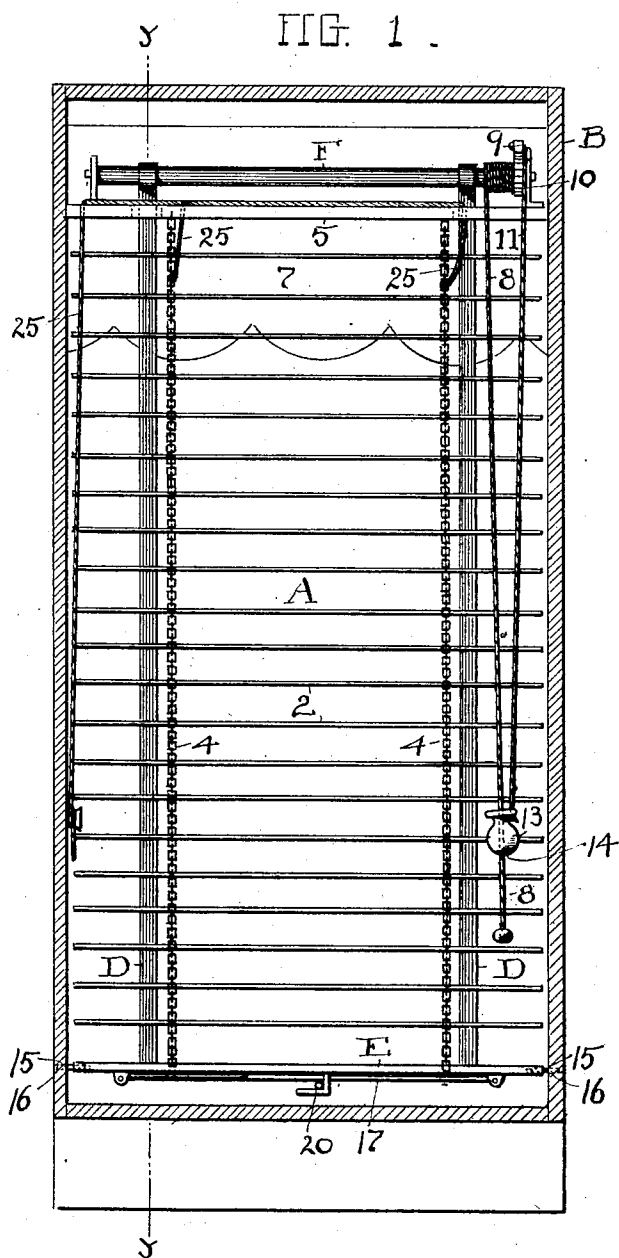
No. 803,696.

PATENTED NOV. 7, 1905.

J. LANG.
COMBINED AWNING AND BLIND.

APPLICATION FILED FEB. 13, 1905.

2 SHEETS—SHEET 1.



ATTEST.
A. J. Moser.
W. B. Moser

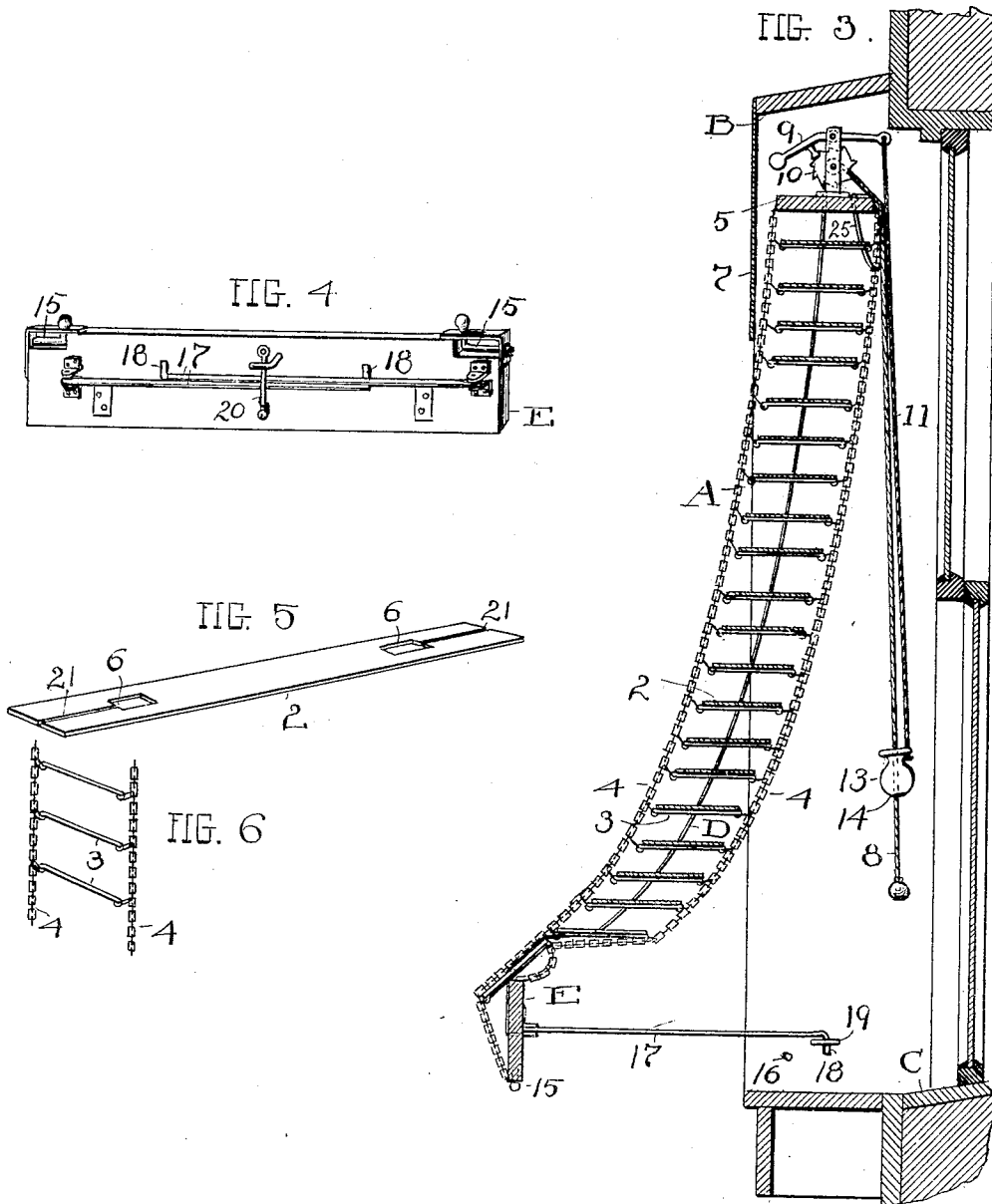
INVENTOR
Jacob Lang
BY H. J. Fisher ATTY.

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2 SHEETS—SHEET 2.



ATTEST.

Ambscr.
R. B. Moore

INVENTOR.

Jacob Lang

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UNITED STATES PATENT OFFICE.

JACOB LANG, OF CLEVELAND, OHIO.

COMBINED AWNING AND BLIND.

No. 803,696.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed February 13, 1905. Serial No. 245,380.

To all whom it may concern:

Be it known that I, JACOB LANG, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Awning and Blind; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in a combined awning and blind; and the improvement consists in the construction and combination of parts substantially as herein set forth, and more particularly pointed out in the claims.

The primary object of my device is to provide windows with an awning or a shade adapted to shut off the light more or less and without cutting off all ventilation. Secondly, I provide a construction simple in its operativeness and separable in parts for painting or repairs, especially the vanes or blades thereof.

In the accompanying drawings, Figure 1 is an inside elevation on line *x x*, Fig. 2, showing the device in lowered position and in use as a blind or shade. Fig. 2 is a vertical section on line *y y*, Fig. 1; and Fig. 3 is a similar view, but with the device shown in position as an awning. Fig. 4 is a perspective view of the bottom plate having the locking members and awning brace-rods thereon. Fig. 5 is a perspective view of one of the slats or blades, and Fig. 6 a perspective view of a portion of the chain and blades supporting links thereon.

The awning or blind A consists of a series of slats or blades 2 of uniform thickness and weight and preferably of wood, although light sheet metal will serve and may be used in some instances. These slats or blades are supported separately at a uniform distance apart upon straight connecting links or bars 3 of a pair of chains 4, suspended at their top from cross-piece 5 of fixed frame B on window-casing C. Each slat or blade 2 is independently supported upon its own links or bars 3 and merely rests thereon and not attached thereto and is removable therefrom. Each blade or slat has openings 6 in its face adapted to receive the flexible strip or tape D, which passes from top to bottom and is fastened to a cross board or plate E at the bottom of the blind and is attached to a roller F

at the top, wherewith it may be wound up and plate E raised and each slat or blade 2 gathered up and raised in its turn until all are assembled and confined beneath hood 7 on frame B. Roller F has bearing-plates for its trunnions or shaft mounted upon the top of cross-piece 5, tape D passing through suitable slots in said cross-piece. A cord 8 is spirally wound upon roller F at one end and, when drawn upon rotates said roller to raise the blades or slats, as described. A pawl 9 engages ratchet-wheel 10 on said roller and holds the roller against a return movement and acts to suspend the slats at any desired elevation. A cord 11 attached to one end or an arm of said pawl is used to release the pawl from engagement with the ratchet when said cord is drawn upon, and the slats descend by gravity until fully lowered or until engagement between pawl 9 and wheel 10 is again effected. Cord 11 is provided at its lower end with a hand-knob 13, which has a central opening 14, through which cord 8 is free to run, and the manipulation of both cords may be controlled by one hand, the fingers of one hand gripping both knob 13 and cord 8 and giving instant and complete control of the parts actuated thereby.

Bottom board or plate E is provided at each end with a sliding bolt 15, which enters opening 16 in the side walls of casing B to hold the blind securely at its lower end against wind-pressure and flapping. A pair of brace-rods 17 are also pivotally mounted on the bottom face of plate E, one at each side, and which are adapted to have their right-angled ends 18 engage screw-eyes 19 on casing B when the blind is carried and held out in position and in use as an awning and as seen in Fig. 3. A pivoted catch 20 or other suitable locking device is placed centrally upon plate E to hold rods 17 in folded position thereon when not in use.

Each slat or blade 2 is preferably provided with a slot 21, running from each outer end edge to openings 6 and whereby the slats are made removable from tape D. Said tape is of flexible material and can be pushed to one side and slipped through slot 21 when disengagement is desired. Each slat or blade is free, and if broken can be readily removed and replaced or when painting of the slats is required.

I further provide means for slanting slats 2 at positive angles and which comprises a cord or cords 25, attached at its upper end to inside

chains 4 and free to run in openings in cross-piece 5 and suspended therefrom upon the inside of frame B, where it can be grasped by the hand. Any suitable means, such as a hook, 5 may be placed on the casing, to which cord 25 may be fastened to hold the slats at the angle where placed.

When the blind is fully drawn within hood 7 at the top of casing B, it is completely hidden and protected from the elements. The 10 blind is also especially adapted for use on porches and is not limited to windows alone, but may be used wherever a shade or awning is required.

15 What I claim is—

1. In a combined window blind and awning, a support, chains suspended therefrom in pairs, cross-links between pairs of chains and blades supported by said links, a bottom plate 20 and flexible strips fastened thereto, a roller for said strips and means to rotate said roller, locking-bolts mounted on said bottom plate, and pivoted brace-rods carried by said plate and adapted to make an awning of said blind.

25 2. In a combined window blind and awning, a support and flexible hangers suspended therefrom, a series of blades carried by said hangers at uniform distances apart, flexible 30 strips to raise said blades and hangers together, a roller for said strips, pawl-and-ratchet mechanism for said roller to prevent back rotation thereof, a cord spirally wound upon said roller to rotate the same, a cord to release said pawl-and-ratchet mechanism, and a hand member

attached to one of said cords and freely engaged to run upon the other cord. 35

3. In a combined window blind and awning, a support and pairs of chains suspended therefrom, links connecting each pair of chains at intervals, blades supported upon said links, 40 openings with side slots in said blades, flexible strips passing through said openings, a bottom plate attached to the lower end of said strips, means to raise said plate to gather up said blades one by one, and a pair of awning 45 brace-rods pivotally mounted upon said bottom plate.

4. In a combined window-blind and awning, a hooded support and chains suspended therefrom, blades supported at uniform distances 50 apart on said chains, a bottom plate and flexible strips attached thereto, a roller for said strips mounted on said support, a pawl-and-ratchet mechanism for holding said roller against rotation, a cord spirally wound upon 55 said roller to rotate the same, a cord suspended from said pawl-and-ratchet mechanism adapted to release said roller for rotation, a hand member attached to one of said cords and free to run upon the other cord, and a pair of piv- 60 oted awning-braces mounted upon said bottom plate.

In testimony whereof I sign this specification in the presence of two witnesses.

JACOB LANG.

Witnesses:

R. B. MOSER,
C. A. SELL.