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PATENTED OCT. 2, 1906.

J. B. HAINES.
WINDOW VENTILATOR.
APPLICATION FILED NOV. 15, 1905.

Fig. 1.

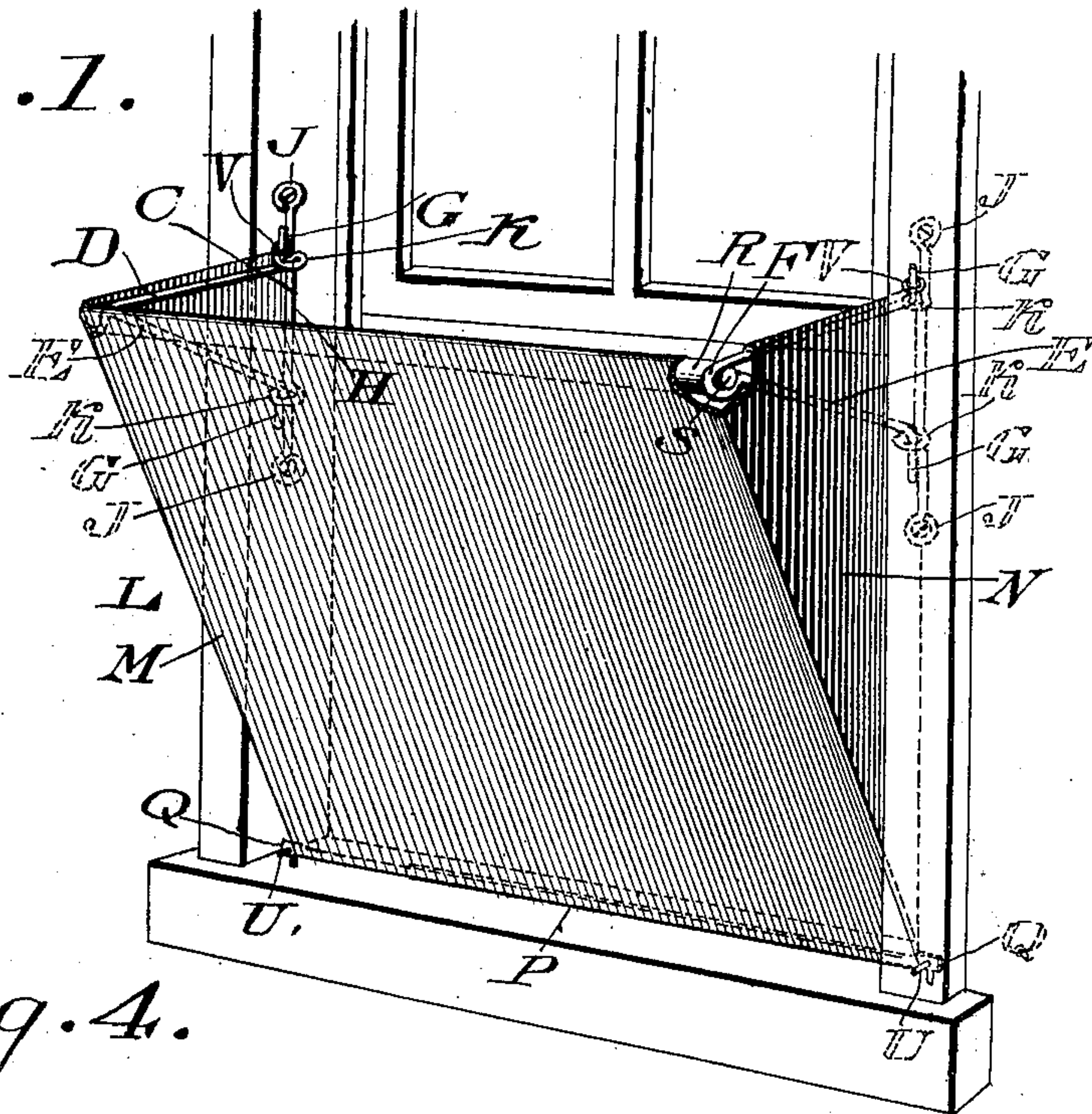
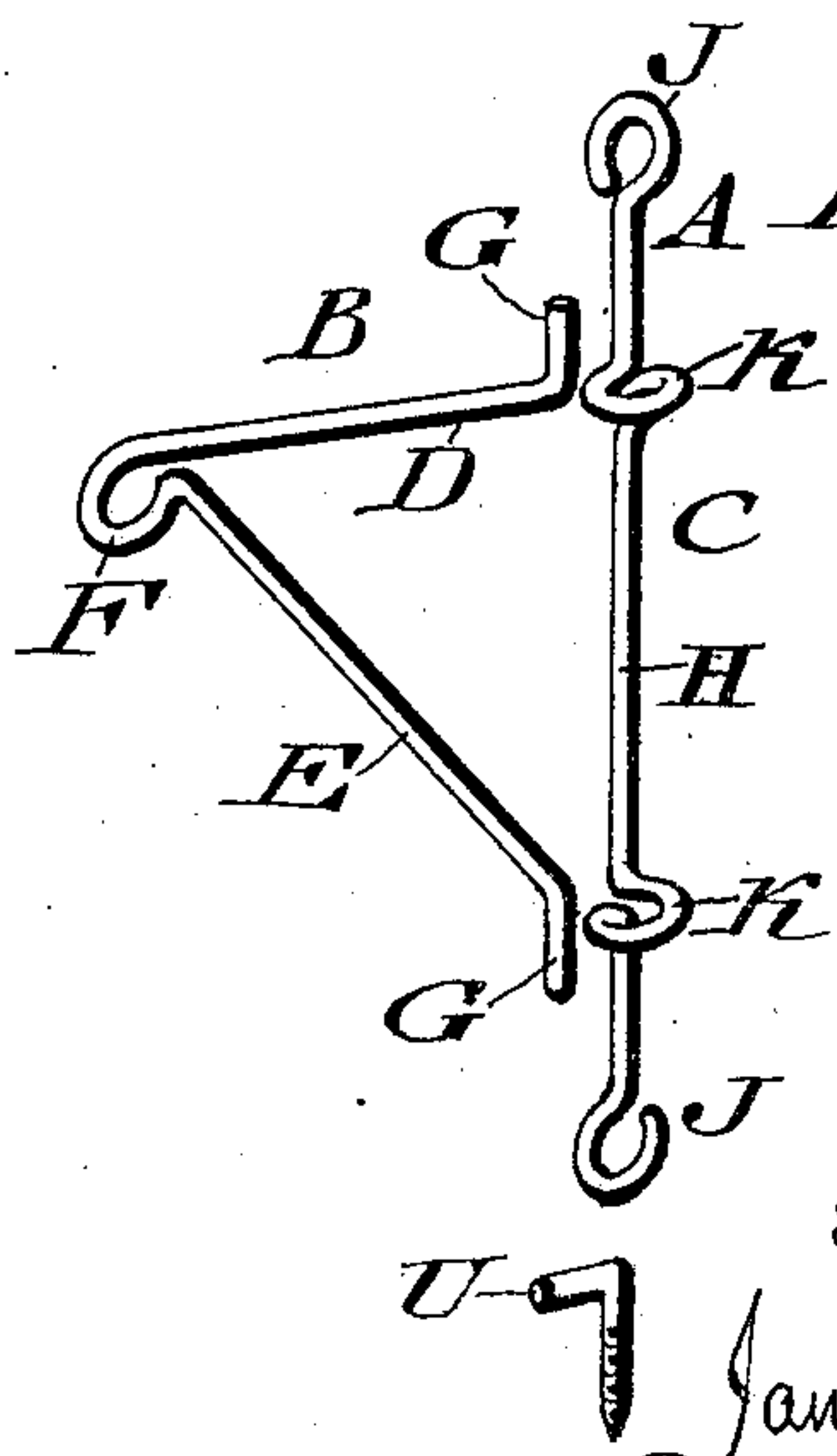
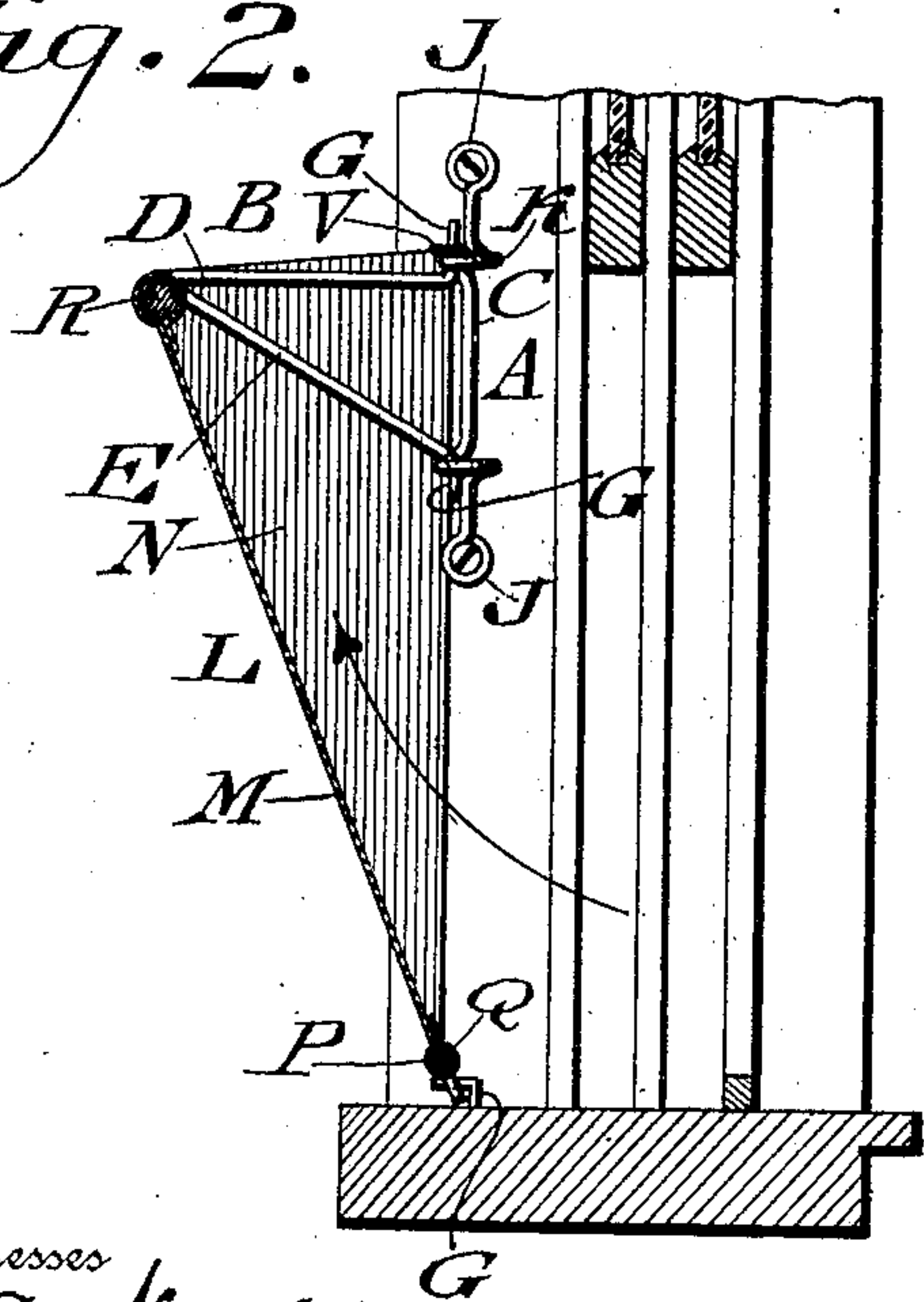


Fig. 4.



Fig. 2.



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WINDOW-VENTILATOR.

No. 832,377.

Specification of Letters Patent.

Patented Oct. 2, 1906.

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To all whom it may concern:

Be it known that I, JAMES B. HAINES, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Window-Ventilator, of which the following is a specification.

My invention consists of a window-ventilator which is adapted to admit air upwardly into an apartment and act as a dust-guard therefor, it being composed of a deflector and supports therefor of novel construction, said deflector being adapted to be folded in compact form, and other advantages are presented, as will be hereinafter described.

Figure 1 represents a perspective view of a window-ventilator embodying my invention. Fig. 2 represents a vertical section thereof. Fig. 3 represents a side elevation of certain members of the device, on an enlarged scale, the deflector being removed therefrom. Fig. 4 represents a side elevation of one of the attaching rollers or rods employed.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates brackets, each of which is composed of detachably-connected members B C, the member B being somewhat V-shaped and formed of a rod bent into arms D E, with the eye F at the angle thereof and lips forming hooks G on the ends of said arms, said hooks projecting vertically in opposite directions. The member C consists of an upright rod or bar H, with securing-eyes J on the terminals thereof, and eyes K intermediate of said terminals. It will be seen that the rods or bars H occupy positions on the sides of the window-frame.

L designates a deflector which consists of the rear wall M, which extends in inclined direction from the bottom upwardly and inwardly and has side wings N somewhat wedge-shaped, the bottom being adapted to be close to a window at the sill thereof and the top set out therefrom, thus providing a channel or passage through which air may enter from below and be directed or injected from above into an apartment to which the ventilator is to be applied. The lower portion of the wall M is formed of a hem P, in which is inserted the rod or roller Q, and the upper wall is similarly constructed and receives the rod or roller R, said rod R having gudgeons S on the ends thereof, the same be-

ing adapted to enter the eyes F on the members B of the brackets.

The rod Q has in its terminals the openings T, the same being adapted to receive the hooks U, which are connected with the lower portion or sill of a window-frame, it being evident that after the member C is properly located and secured in position the arms D E of each member B are pressed together. Then the hooks G are fitted in the eyes K, and the members B thus connected with the members C, the former then projecting inwardly from the latter. The deflector is now applied in position and the rod R by its gudgeons S mounted in the eyes F. The rod Q is fitted on the hooks U, after which the upper ends of the wings M have their inner ends secured to the upper hooks G, for which purpose said ends are preferably provided with rings V, it now being evident that the ventilator is nicely and firmly secured in operative position, it being also evident that air may enter an apartment and be directed upwardly into the same through the ventilator instead of being discharged directly upon the occupants of the room, any dust accompanying the air being also similarly directed. When service of the ventilator is not required, the rod R is withdrawn from the eyes F and the rod Q unhooked, the deflector then being disconnected from the bracket, and consequently from the window-frame. The members B of said bracket may each be pressed together, and thus removed from the members C thereof, and the latter may remain fixtures of the window-frame, if so desired.

The deflector is formed of a sheet or piece of suitable fabric, such as canvas or the like, so that it may be rolled on either rod Q or R, and thus made into compact form suitable for handling, storing, transportation, &c.

In order to provide for variation in the place of occupation of the hooks U on the sill, the rod P is made telescopic, whereby its members may slide one on the other, so as to provide for adjustment of the rod in length relatively to the distance apart of said hooks.

The members B are each formed integral of wire or round metal, as is also each of the members C, the various parts of each member being easily bent into proper shape, thus producing a light, strong, easily-formed, and inexpensive construction.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. In a window-ventilator having a deflector of the character stated, brackets
5 formed of two members, one member being composed of limbs extending at an angle to each other, an eye at the angle of said limbs and lips projecting vertically in opposite directions from the terminals of said limbs, said
10 eye and lips being integral respectively with said limbs.

2. In a window-ventilator having a deflector of the character stated, brackets
15 formed of two members, one member being composed of a rod bent on itself at its terminals forming securing means and bent on itself between said eyes forming means for connection of the other member.

3. In a window-ventilator having a deflector of the character stated, brackets
20 formed of two members, one member being composed of limbs extending at an angle to each other, an eye at the angle of said limbs, lips on the terminals of said limbs and the
25 other member being composed of a rod bent on itself at its terminals forming securing means and bent on itself between said eyes forming means for attachment of the lips of the other member.

30 4. In a window-ventilator, a support for a deflector, composed of a bracket formed of members detachably connected, one member being constructed of an angular rod having resilient arms with an eye at the angle there-
35 of and opposite-projecting lips on the ends,

and the other member composed of a rod having eyes for fastening it to a window-frame and eyes intermediate of the ends thereof to receive said lips, the eyes of the last-named member being integral with said rod
40 and being bent thereon.

5. In a window-ventilator, a deflector, cross-bars respectively at the top and bottom thereof, a bracket for supporting the top bar at the front of said deflector, means for sus-
45 taining the lower bar on a window-sill and means on the rear end of the sides of said deflector for engaging it with a member of said bracket, said bracket being adapted to be detachably secured in position on a window-
50 frame.

6. A window-ventilator composed of an angular-shaped deflector, cross-bars on the top and bottom of said deflector, a bracket member adapted to removably sustain the top
55 cross-bar and distend said deflector, a device on the window-sill adapted to removably secure the lower cross-bar, another bracket member adapted to sustain the first-named bracket member and provided with eyes for
60 connection with a window-frame and eyes for removably securing the terminal portions of the first-named member thereto and means for removably holding the rear of the sides of said deflector to said frame.

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