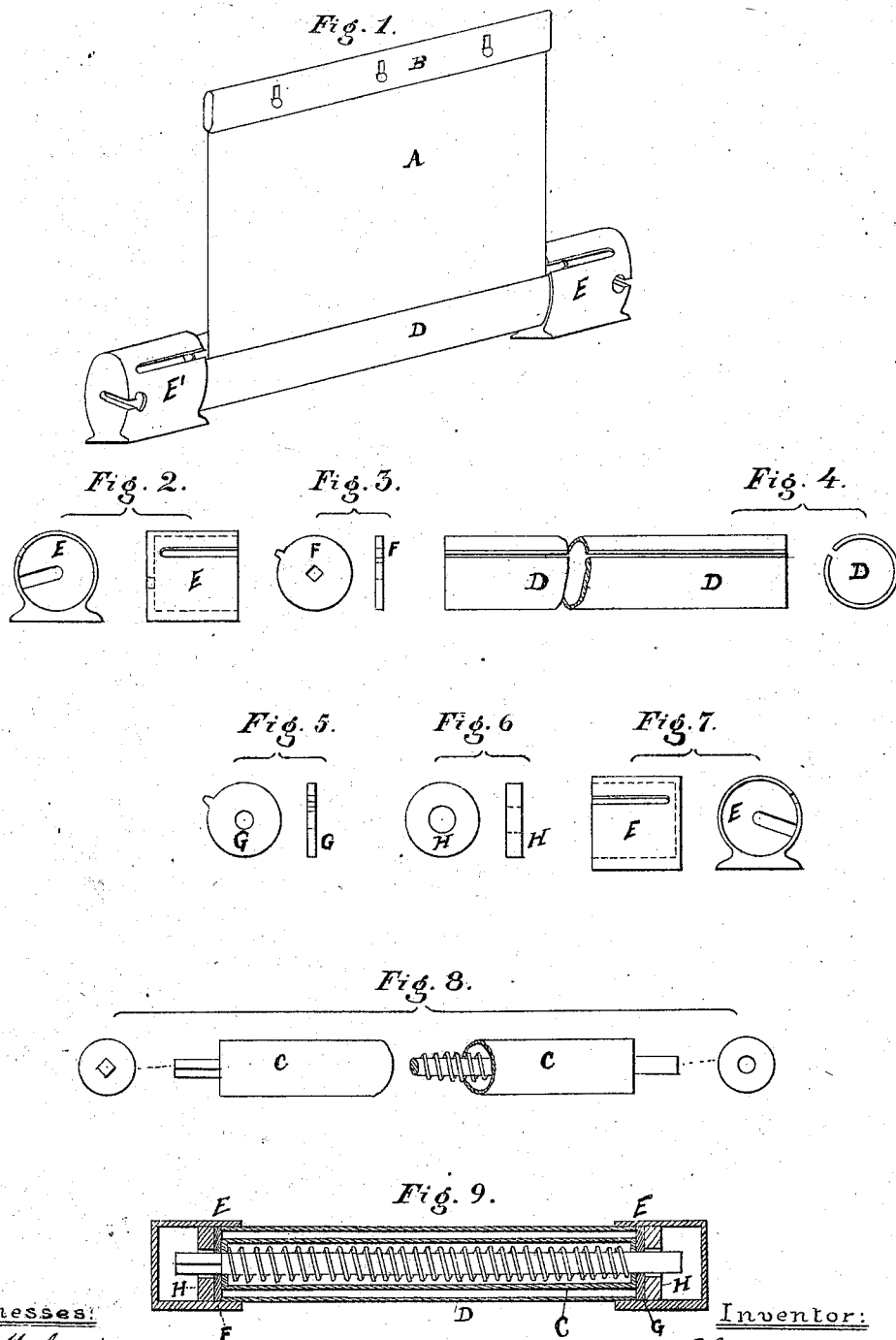


S. T. LIPPINCOTT.

Window-Screens.

No. 136,740.

Patented March 11, 1873.



Witnesses:

M. M. Cooke
W. H. Blake

Inventor:

Shepherd T. Lippincott
his Atty John R. Connel

UNITED STATES PATENT OFFICE.

SHEPHERD T. LIPPINCOTT, OF ELIZABETH, NEW JERSEY.

IMPROVEMENT IN WINDOW-SCREENS.

Specification forming part of Letters Patent No. 136,740, dated March 11, 1873.

To all whom it may concern:

Be it known that I, SHEPHERD T. LIPPINCOTT, of Elizabeth, county of Union, in the State of New Jersey, have invented new and useful Improvements in Window-Screen Fixtures; and I do hereby declare that the following specification, taken in connection with the drawing furnished, is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

My invention relates to the combination and arrangement of a self-winding roll, incased within a cylindrical case with caps or brackets, (forming sockets,) embracing the ends in which are arranged bearings, &c., for the support of the roll. Said case may be turned in the sockets, allowing the slit in the case a position underneath while the screen is detached from the sash and not in use, to prevent the accumulation of dirt that would otherwise occur. It relates also to the employment of sheet metal to embrace the edge of the screen, which is to be attached to the window-sash.

Referring to the drawing, Figure 1 represents an outline sketch of my invention. Figs. 2 represent end and side view of caps or sockets. Figs. 3 represent edge and side of journal-bearing. Figs. 4 represent sections of shell or case. Figs. 5 represent edge and side of journal-bearing; Figs. 6, washers; Figs. 7, side and front of cap or socket; Figs. 8, sections of spring-roll; Figs. 9, sectional view of fixture.

A, screen, of wire or other material; B, metallic strip embracing the edge of the screen; C, spring-roller; D, shell or case; E, caps or sockets; F, bearings; G, bearings; H, washers.

To enable others skilled in the art to make and use my invention, I will describe it more fully in detail.

The caps are made of cast-iron or other suitable material, with an opening to receive the ends of the cylindrical case, and a slit to receive the ear of the journal-bearings to prevent the same from rotating, as will be hereafter more fully explained. A slot is provided at the end, as shown in Fig. 1, for the purpose of connecting or attaching it to the sash, sill, or window-casing of a window after the parts are made a unit. The caps are made rights and lefts, in order to have the slits or grooves in line with each other. Pieces serving as bearings, as shown in Figs. 3 and 5, are made of

any suitable material, preferring, however, cast-iron for cheapness. These are provided with ears to fit the slots in the caps. One containing the square hole receives the square shank of the spring-roll, which causes the spring to act when the screen is properly attached. The one with a round hole allows the journal to revolve, and is arranged in the cap at the opposite end from the former. Rings or washers are provided to assist in the regulation or adjustment of the fixture to the space required to be filled, by using thicker or thinner ones, as may be necessary, placing them in the caps before the shell. The shell is made by rolling or drawing in the usual manner, and is made of sheet metal, such as zinc, brass, or iron. The edges of this cylindrical case do not meet, as a space should be left of about three-eighths of an inch, more or less, through which the screen moves in the action of winding and unwinding. The space allows the case to be compressed for the purpose of fitting the caps, which is generally sufficient to form a firm connection without other means. Any self-winding roll will serve my purpose, to which the screen should be attached, while the opposite end of the latter is embraced by a strip of zinc or other metal, by folding the same over the edge sufficiently to firmly grasp and hold the netting without other means. This strip is provided with buttons or other holes for the admission of pins or buttons to connect the same with the sash or casing, as shown.

Briefly, I take the cap E and place the bearing piece F within, placing the self-winding roll (with the screen wound thereon) within the case D, and then enter the square shank of the roll into its bearing within the cap, slightly compressing the case and forcing the same into the cap or socket. The opposite end should be arranged in the same manner. Thus the fixture is made a unit. The slots at the ends of the caps receive a projecting pin, or the head of a screw, which should project from the window-casing for that purpose, when desired to be readily detachable. For a permanent fixture the caps may be secured in position by screws through their base. The shell may be turned or rotated in its bearings sufficiently to hide from view the slot after the screen is wound up and not attached to the

sash, thereby keeping out dirt, &c., and presenting a very ornamental appearance when plated or otherwise finished. The metallic strip embracing the netting may be withdrawn from the shell and attached to the sash or sill by pins or buttons, as before mentioned, so as to readily follow the motion of the sash up and down.

This fixture may be readily applied to any portion of the window casing or sash, although generally it may be best to secure the same to the casing, allowing the foot part of the caps or brackets to rest upon the sill close to the weather-strip; or the weather-strip may be removed and the fixture located in its stead.

I would remark that in many instances the journal-bearing pieces F and G may be dispensed with. In the latter case the holes for supporting the roll may be made in the caps and the slot for the screw-heads arranged below the center.

Having thus described my invention, I do not claim, broadly, self-winding screen fixtures irrespective of the mechanism employed; but

Having thus described the same, what I claim as new, and desire to secure Letters Patent of the United States for, is—

1. The combination of caps E and E', bearing pieces F and G, spring-roll C, attachment A, and case D, substantially as herein described.

2. The combination of the caps E and E', bearing pieces F and G, washer H, spring-roller C, case D, screen A, and metallic strip B, as and for the purpose herein set forth.

In testimony that I claim the foregoing, I have signed my name before two subscribing witnesses the 22d day of November, A. D. 1872.

SHEPHERD T. LIPPINCOTT. [L. s.]

Witnesses:

JOHN DANE, Jr.,
MANUEL M. COOKE.