

(No Model.)

W. A. McDONALD.

SASH HOLDER.

No. 292,670.

Patented Jan. 29, 1884.

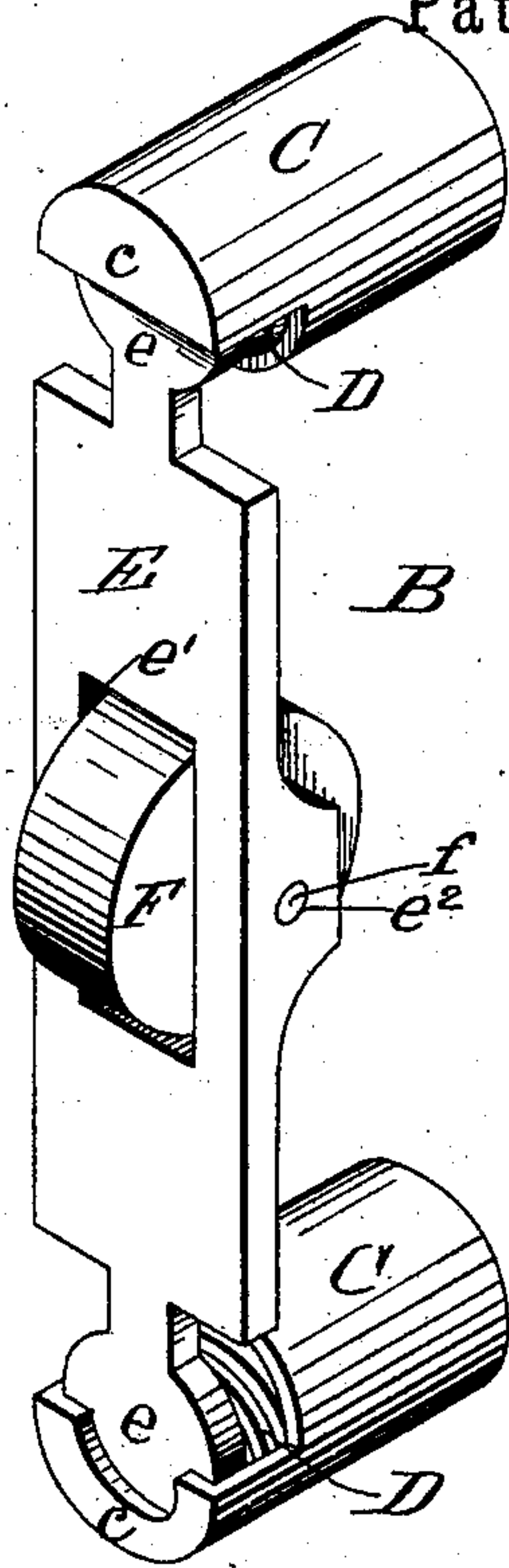
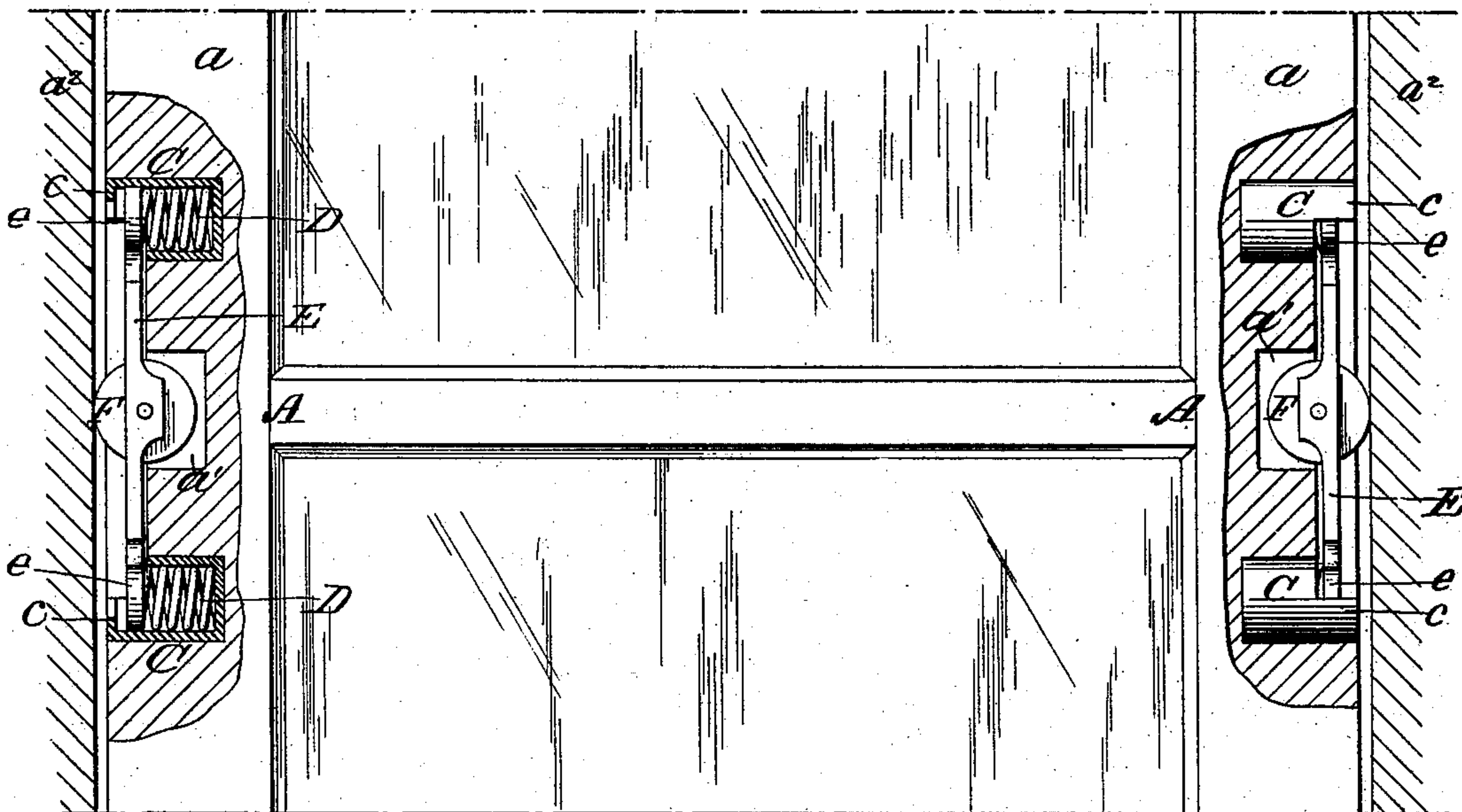


Fig 1.



WITNESSES:

John H. Deemer
C. Sedgwick

INVENTOR:

W. A. McDonald
BY *Mumford*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM A. McDONALD, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF
ONE-HALF TO FRANK J. CROSS, OF SAME PLACE.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 292,670, dated January 29, 1884.

Application filed September 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. McDONALD, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and Improved Sash-Holder, of which the following is a full, clear, and exact description.

The object of the invention is to improve that class of sash-holders in which a friction-roll is pressed by a spring or springs against the sash, as hereinafter described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of the sash-holder. Fig. 2 is a front sectional elevation of part of a window with my sash-holder attached, showing the manner of their operation.

A is a window-sash, having at opposite points in its sides a recesses a' , adapted to receive the sash-holders B, which are composed of the cylindrical spring-cups C, spiral or other springs D, face-plate E, and roller F. The spring-cups C are fitted tightly within the recess a' , and contain the spiral or other shaped springs, D, which are made of spring-metal. The face-plate E has a slot, e' , and bearings e^2 , for the reception of the roller F and its axle f , and is adapted by its opposite ends, e , to receive the thrust of the springs D. The cups C have lips c which project over the circular ends e of plate E and hold plate E in place. The roller F may be made of elastic rubber or other material, and is adapted to turn on its axle f in bearings e^2 , formed in plate

E, and to project from the face of plate E and press against the jamb a^2 of the window.

The operation is as follows: The rollers F are pressed by the springs D against the jambs a^2 of the window with sufficient force to sustain the weight of the sash A and hold it in any position at which it may be placed.

The advantages of my invention are in the simplicity of its construction and action. It is entirely out of sight. It permits the free raising and lowering of the sash, and holds it in the desired position. It is also durable, and desirable on account of the facility with which the sash may be removed and replaced when required. The holder also prevents the sash, door, or other slide from rattling by the wind, and may be made at low cost, and is in every way practical for its purpose.

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

1. The combination, with the springs D D, of cups C C, open at one side and having the lip c , and a roller face-plate, having ends e , fitting under said lips, to receive the pressure of the springs, as shown and described.

2. The spring-cup C, constructed, substantially as described, with the lip c , and adapted to receive the spring D and face-plate E, as set forth.

3. The face-plate E, constructed, substantially as described, with the opposite ends, e , and slot e' , and adapted to fit the cup C and to receive the roller F, as set forth.

WILLIAM A. McDONALD.

Witnesses:

JAMES W. LAWRENCE,
FRANK J. CROSS.