

(No Model.)

S. B. JUNGKURTH.  
AUTOMATIC DAMPER FOR REGISTERS.

No. 596,709.

Patented Jan. 4, 1898.

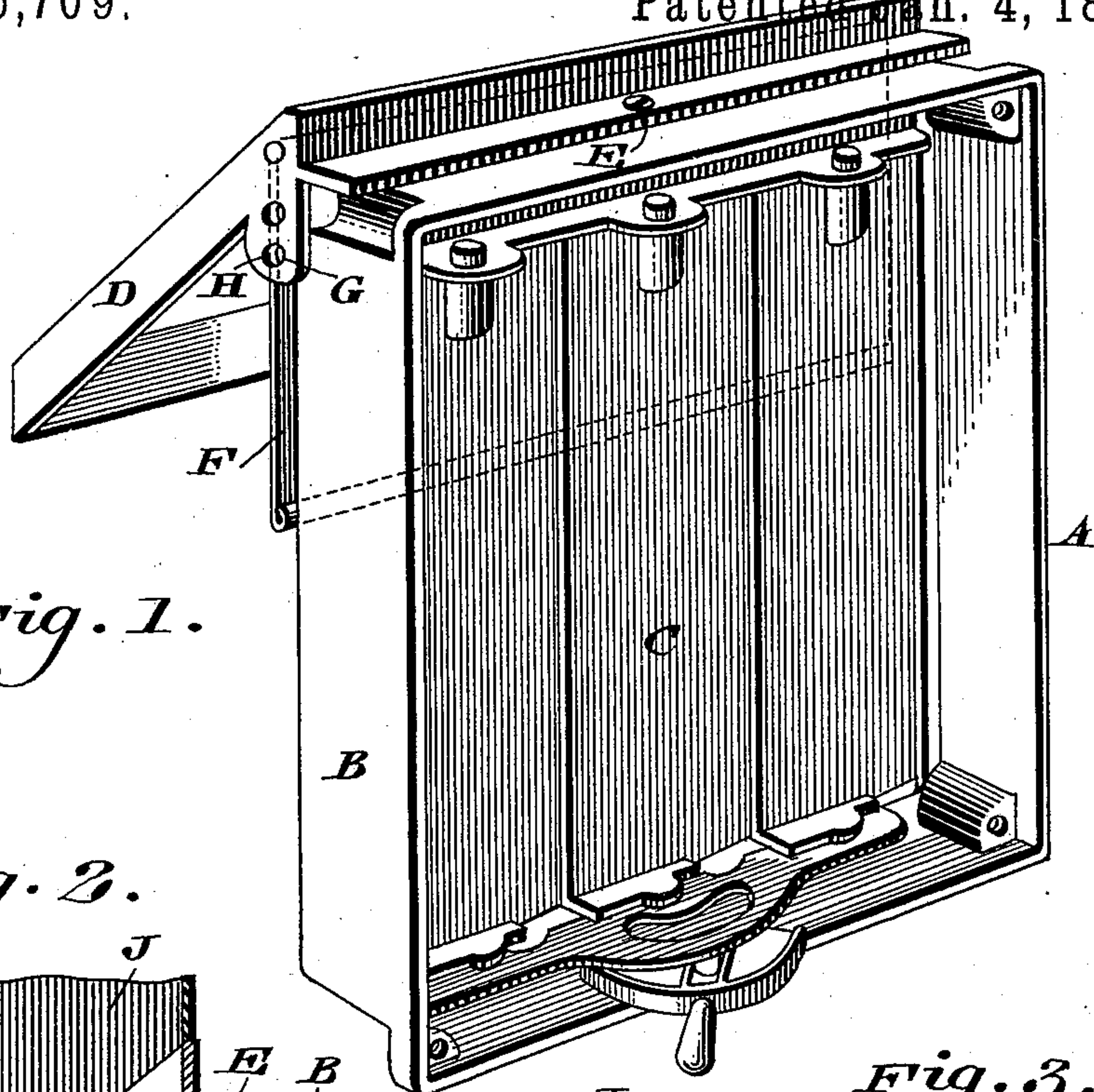
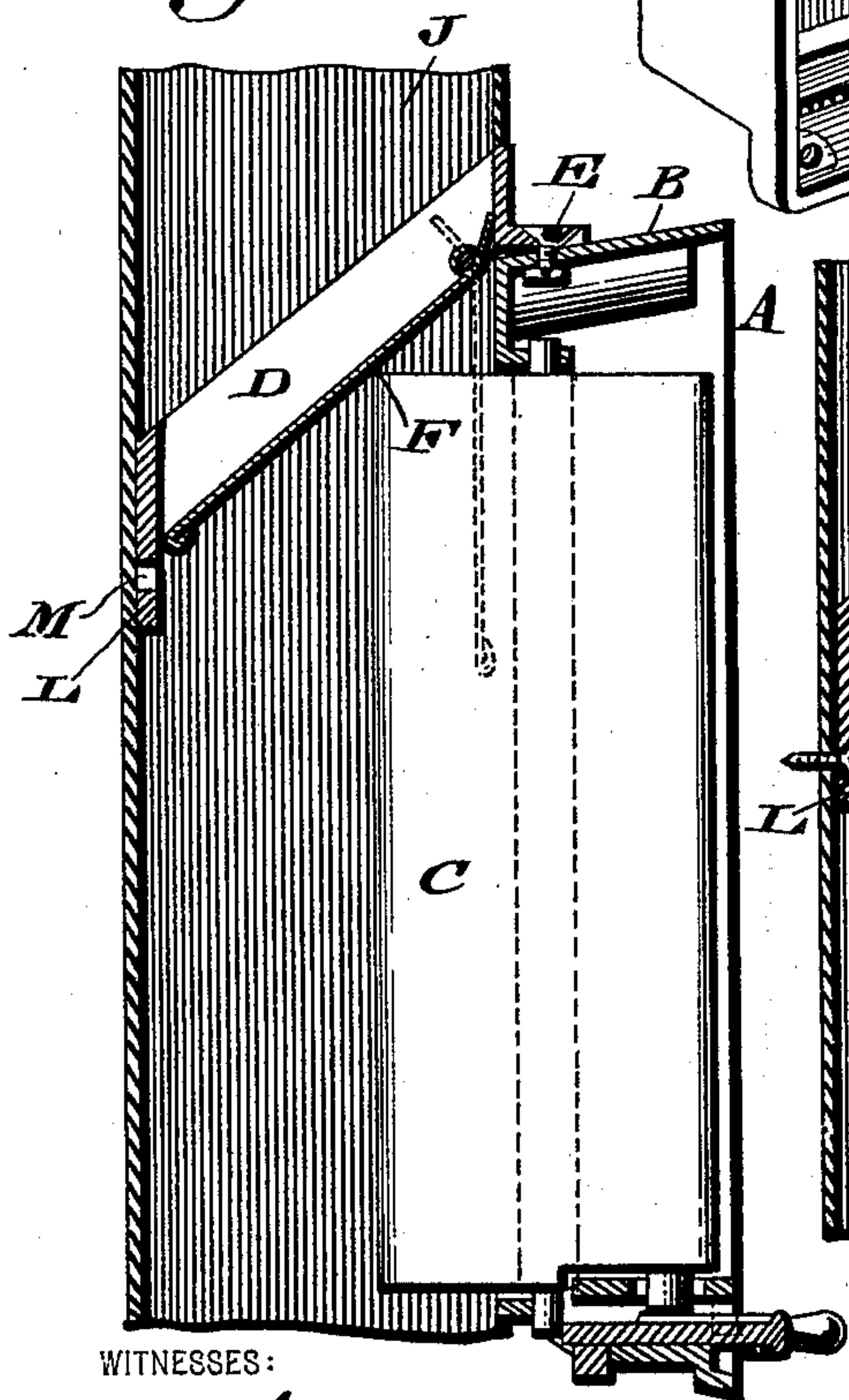


Fig. 1.

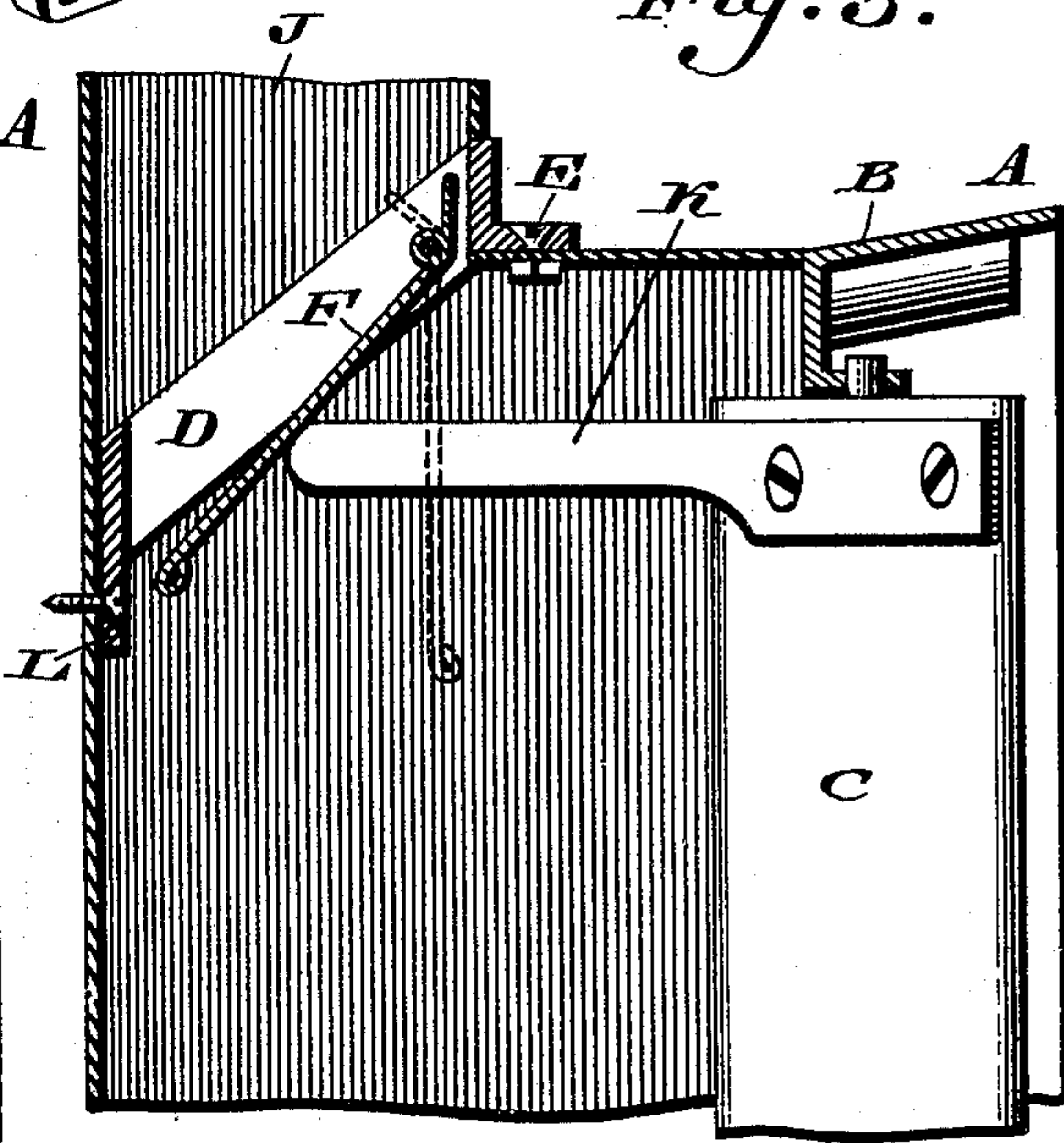
Fig. 2.



WITNESSES:

P. H. Hagler.  
L. Douville.

Fig. 3.



INVENTOR  
Samuel B. Jungkurth  
BY  
Wiederheim & Fairbanks.  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

SAMUEL B. JUNGKURTH, OF PHILADELPHIA, PENNSYLVANIA.

## AUTOMATIC DAMPER FOR REGISTERS.

SPECIFICATION forming part of Letters Patent No. 596,709, dated January 4, 1898.

Application filed July 6, 1897. Serial No. 643,544. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL B. JUNGKURTH, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Automatic Dampers for Registers, which improvement is fully set forth in the following specification and accompanying drawings.

10 My invention relates to improvements in automatic dampers for registers; and it consists in suitably mounting in a flue a damper, which damper is controlled by the opening and closing of the plate in the register.

15 Figure 1 represents a perspective view of an automatic damper embodying my invention, showing the same in open position. Fig. 2 represents a vertical sectional view showing the damper in closed position. Fig. 3 represents a vertical sectional view of a damper and a portion of a register, with means for operating the damper when the same is situated a distance from said register.

20 Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a register having a frame B, which supports the plates C, which are mounted in the usual manner, so as to be turned in order to open or close the said register and thus govern the passage of the air.

25 D designates the damper-frame, which may be secured to the register A in any suitable manner. In the present instance a screw or pin E is employed. Pivotaly mounted in said frame D is the damper F, which in its normal position is adapted to hang in substantially a vertical direction, as shown in Fig. 1 and in dotted lines, Fig. 2, said damper being 35 mounted close to the plates C and is adapted to be operated by the same, as will be described.

G designates lugs on the frame D, said lugs being provided with the openings H, so that 40 the said damper can be adjusted as to height, depending upon the flue in which it is placed.

When the register A is situated a distance from the flue J, as seen in Fig. 3, a bar or projection K is attached to or forms part of one of the plates C, in order that the same can operate the damper F.

L designates a lug on the frame D, which is provided with an opening M, thus affording another means of receiving the frame in the 55 proper place; but any suitable connecting

method or means may be employed, depending on the conditions.

The operation is as follows: When the register is closed, as seen in Fig. 1, the damper F is open, and thus a free passage is permitted to the air to ascend. If the register is opened, the plates C in turning engage the said damper F and close it, as shown in Fig. 2, and thus the hot air is directed through the register.

In Fig. 3 I have shown the flue situated at such a distance that the plates C could not engage the damper F; but in this case I provide the said plates with a bar or projection K, which is adapted to operate the damper F, it being seen that in either case the damper will fall to the position shown in Fig. 1 when the register is again closed. By this means I insure the opening of the damper when the register is closed, which is often forgotten in the constructions now in use.

I desire to make such changes as may come within the scope of my invention, and therefore do not wish to be limited in every case to constructions as herein shown and described.

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

1. In combination with a register having rotatable plates, a frame adapted to lie in an air-pipe adjacent to said register, and a damper supported in said frame and adapted to normally lie in the path of movement of the register-plates and also adapted to be closed thereby.

2. In combination with a register having rotatable plates, arranged in a vertical position, and an adjustable damper normally in contact with and opened and closed by the movement of said plates.

3. In combination with a register having rotatable plates, a frame secured to said register and adapted to lie in an air-pipe adjacent to said register, and a damper supported in said frame and in contact with and in the path of movement of said plates.

4. In combination with a register having rotatable plates, an air-pipe, a stationary frame in said air-pipe, a pivoted damper adjustable in said frame and normally in the path of movement of said plates, and adapted to be closed thereby.

SAMUEL B. JUNGKURTH.

Witnesses:

JOHN A. WIEDERSHEIM,  
WM. C. WIEDERSHEIM.