

G. B. WISEMAN.

Damper Valve.

No. 65,033.

Patented May 21, 1867.

FIG. 1

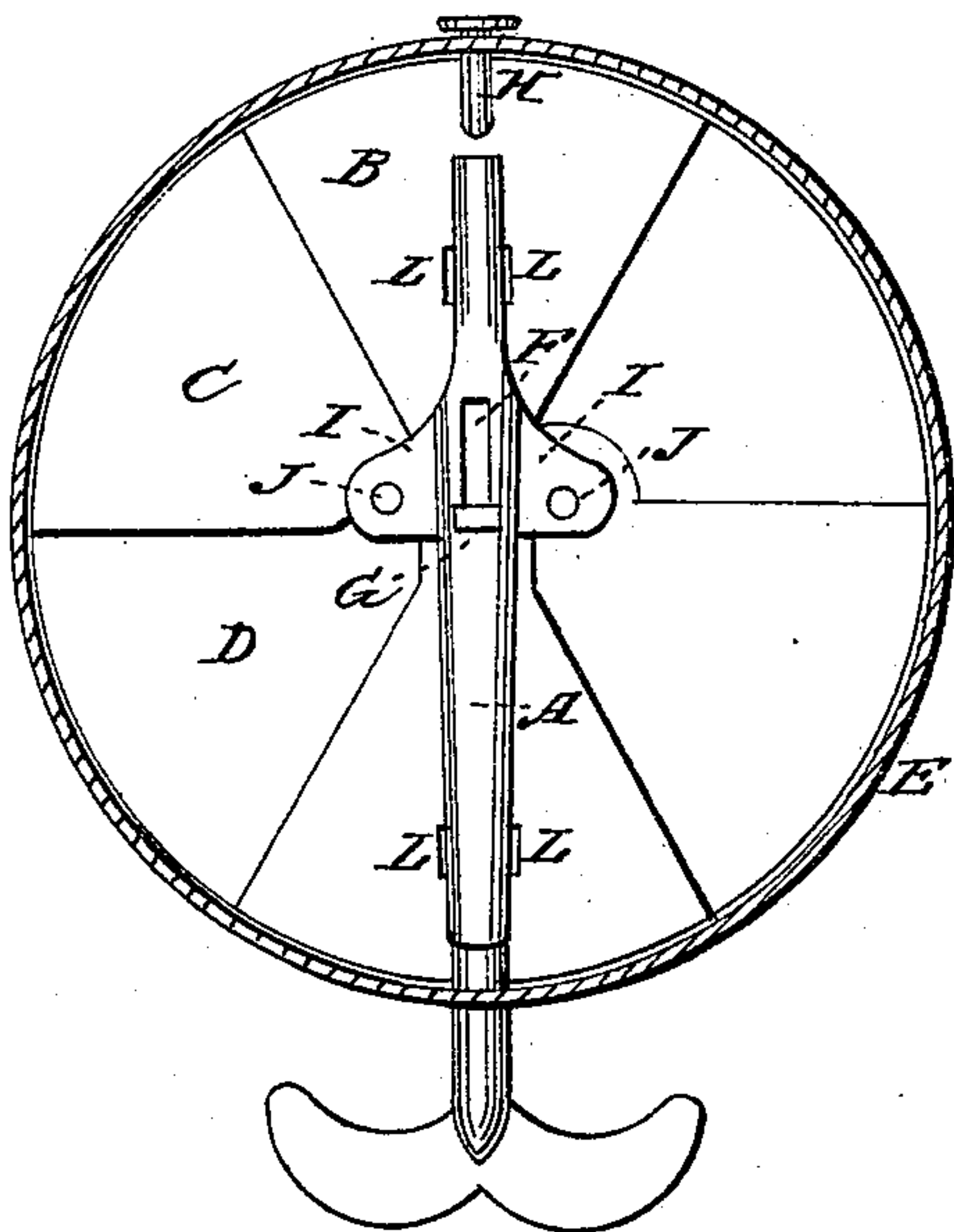


FIG. 2

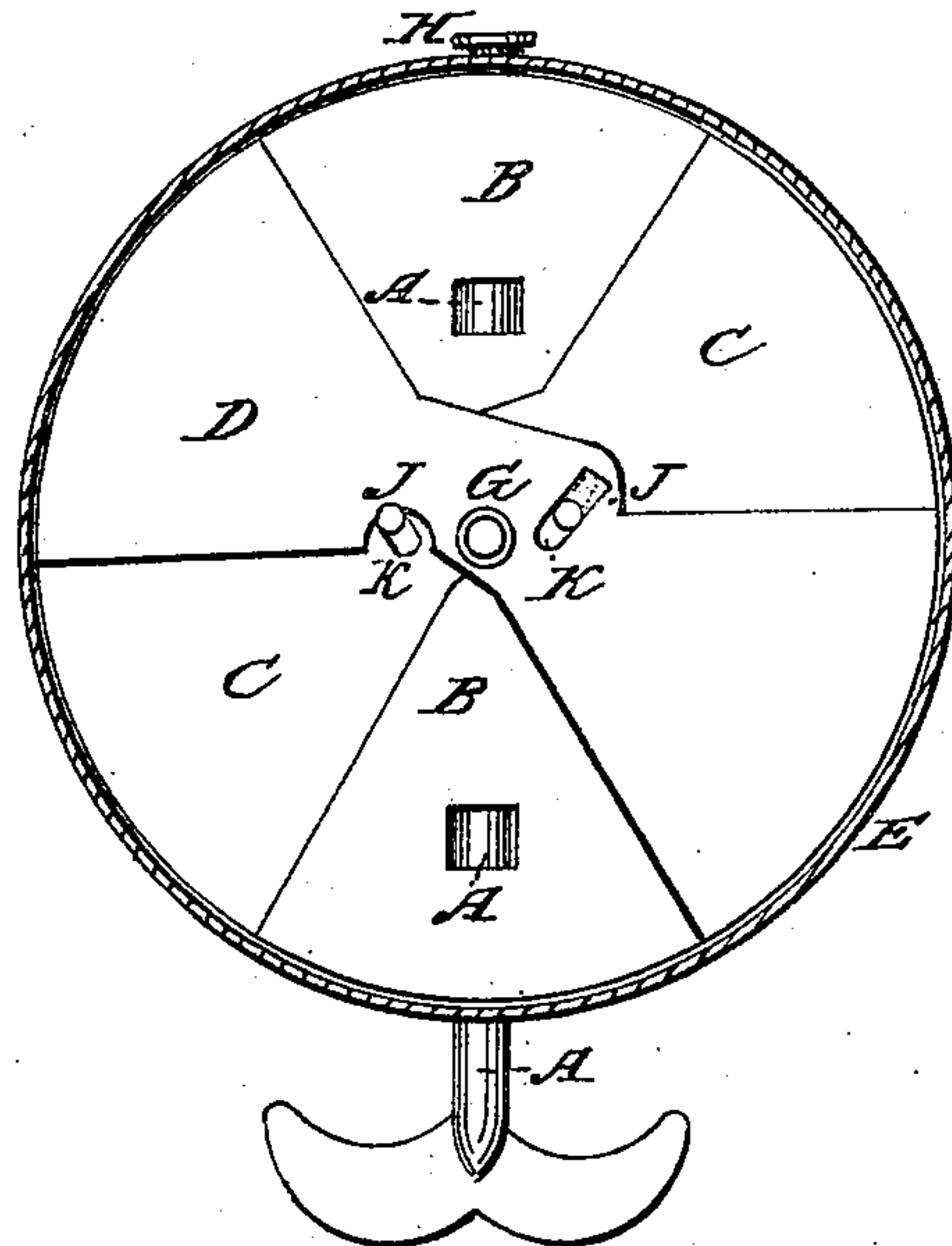


FIG. 3

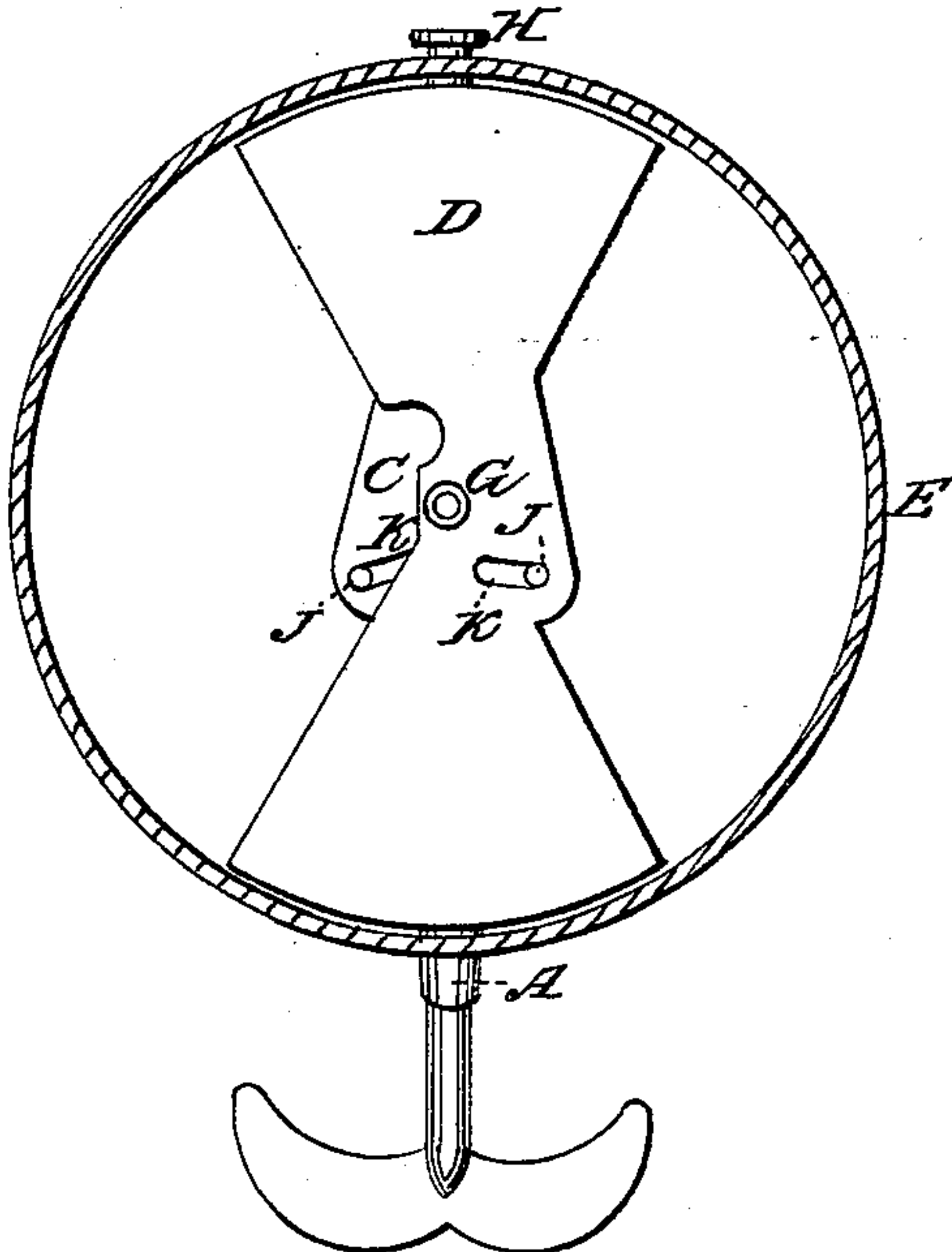
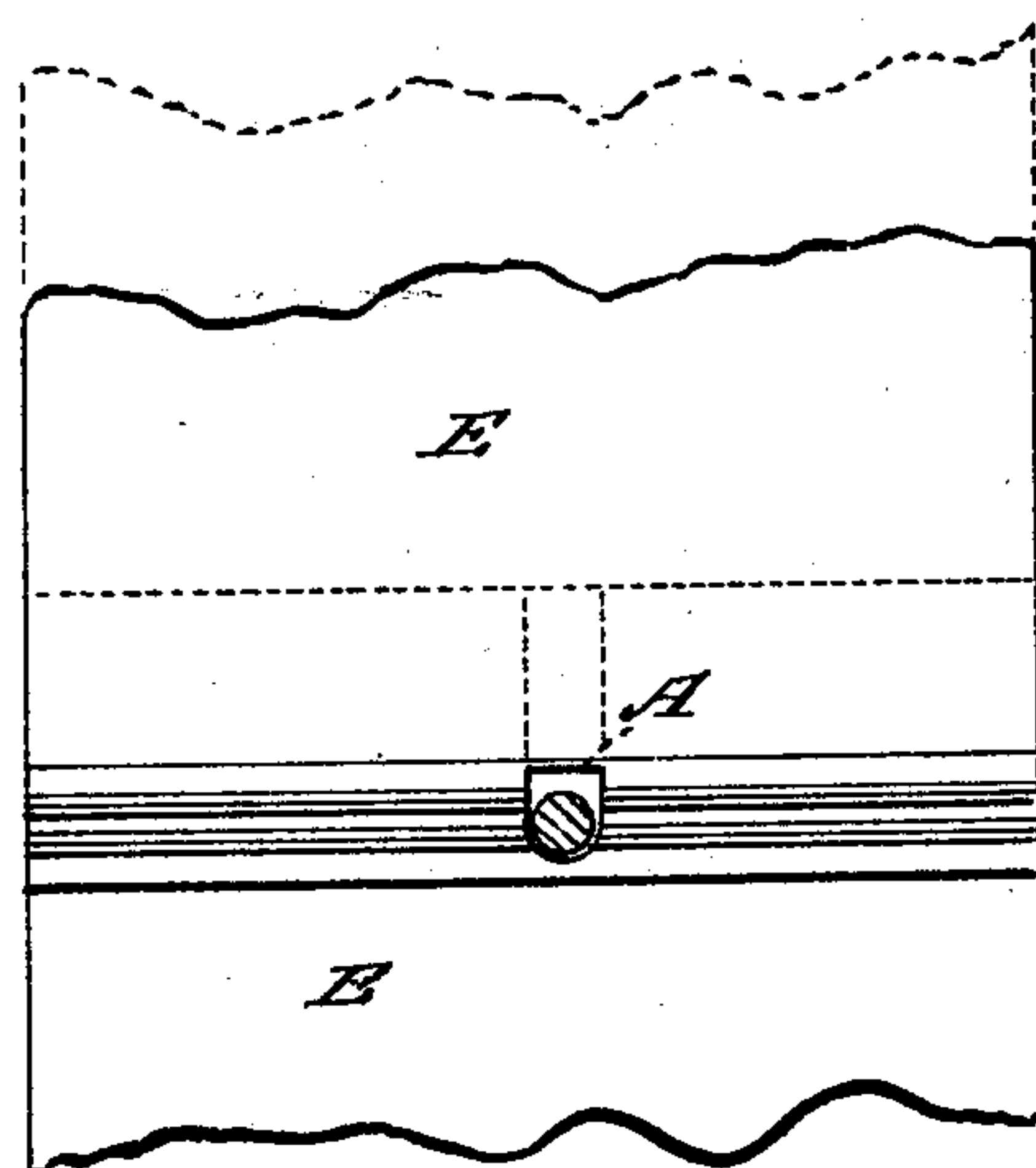


FIG. 4



WITNESSES:

A. H. Smith.
Philip. C. Dieterich.

INVENTOR:

G. B. Wiseman
By his Atty
R. D. Miller

United States Patent Office.

GAIUS B. WISEMAN, OF SYCAMORE, ILLINOIS.

Letters Patent No. 65,033, dated May 21, 1867.

VALVE FOR STOVE-PIPE DAMPER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GAIUS B. WISEMAN, of Sycamore, in the county of DeKalb, and State of Illinois, have invented a new and useful improvement in Valves for Stove-Pipes and other purposes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is an obverse plan of my valve.

Figure 2 is a reverse plan of my valve.

Figure 3 shows the reverse side, the valve being open.

Figure 4 is an elevation of a part of a stove-pipe, showing the joint and the method of inserting the valve in place.

My invention consists in constructing a valve suitable for a stove-pipe damper, with leaves which fold upon each other by pulling or pushing the valve-stem endways, and thus uncovering about two-thirds of the cross-section area of the pipe, and enabling me to adjust the opening with great delicacy. If the entire area of the pipe is to be uncovered, the valve may be turned upon its axis in the ordinary manner. That others may understand the construction and operation of my valve, I will particularly describe it.

A is the valve-stem, to which the stationary and moving leaves B C D are attached. The thumb-piece at the end enables me to revolve the valve, or by drawing the stem out or shoving it in, I can cause the leaves B C D to open or close. That part of the stem A, which is always within the pipe E, is rectangular in its cross-section, and has through that part of it which covers the centre of the valve a slot, F, through which is inserted the pivot-pin G, upon which the leaves C and D move when opening or closing. This pin is provided with a T-shaped head, which may be turned crosswise of the slot F, as shown in fig. 1, to retain the parts together. On each side of the stem A, opposite the slot F, is a wing I I, through which pins J J are passed and secured by riveting the ends; these pins project through slots K K respectively formed in the leaves C D, and these slots are so placed that as the stem A is moved in or out, the pins J J cause the leaves C and D to move upon the pivot G, the slots being sufficiently long to accommodate the relative motion of the leaves and pins. The permanent leaf B, besides being attached to the stem A by the pivot-pin G, is provided with a headed-pin, H, which projects therefrom through the opposite side of the pipe and supports that side of the valve. The form of permanent leaf B is clearly shown in fig. 1, and the forms of the folding leaves C and D are fully shown by the form of D, in figs. 2 and 3; leaves C and D being duplicates of each other. The stem A is confined between guides, formed by making an I-shaped incision near each end of the leaf B, and by raising the lips of these incisions at right angles to the surface of the leaf, as at L L, fig. 1.

The drawings exhibit this valve as applied simply as a damper in a stove-pipe, but it is evident it may be applied in many other positions and for other purposes by slight modifications of construction or fitting. When applying it as a damper in a stove-pipe, it is inserted by cutting two slots in the end of one joint, as shown in fig. 4, in which the stems A and H are placed, and the succeeding joint is then placed on the first, and the valve is retained in place.

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

A folding damper-valve, composed of the leaves B C D, operated by a sliding-stem A; the whole constructed substantially as set forth and described.

The folding and revolving damper-valve, constructed and operated substantially as set forth and described.

GAIUS B. WISEMAN.

Witnesses:

C. M. CONRAD,

R. A. SMITH.