

I. VAN HAGEN.
Stove Pipe Damper.

No. 94,986.

Patented Sept. 21, 1869.

Fig. 1.

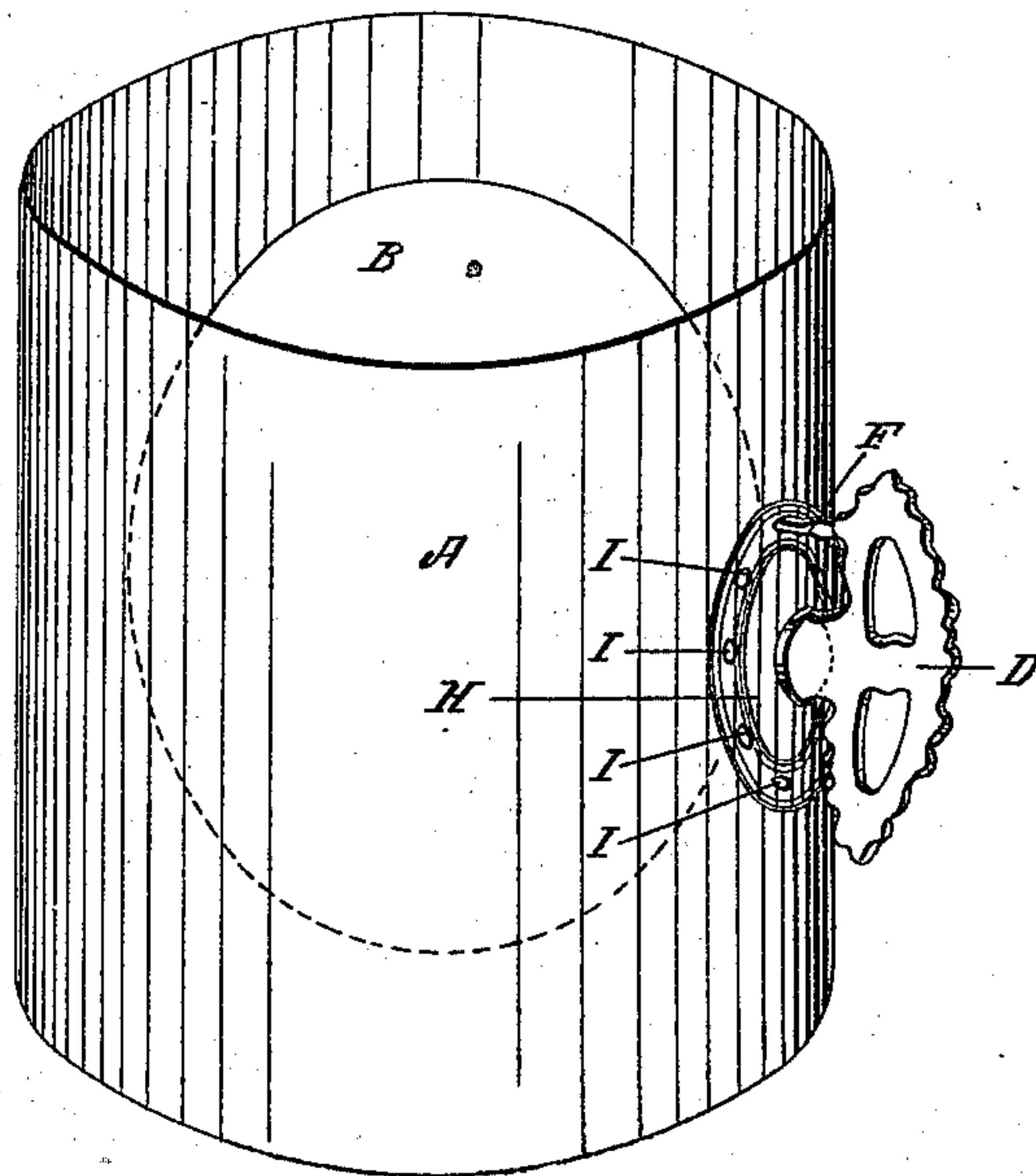


Fig. 2.

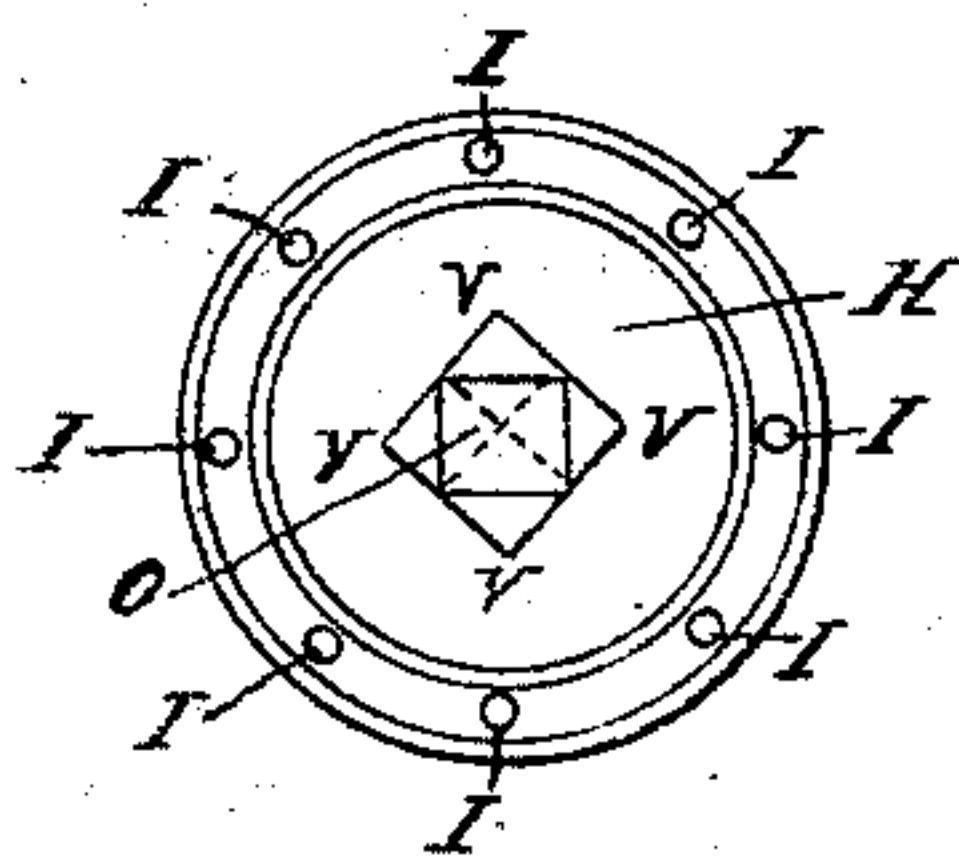
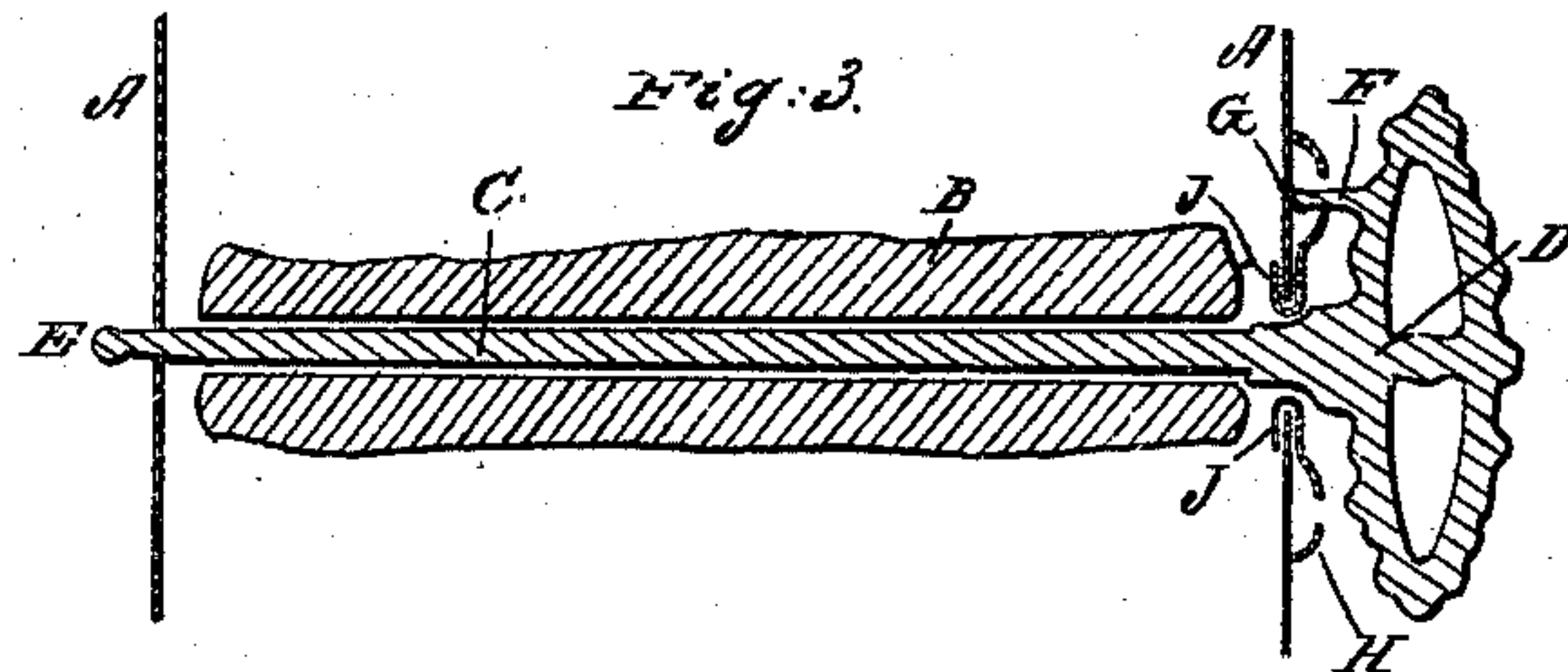


Fig. 3.



Witnesses:
G. d. Chapin.
E. E. Gibson.

Inventor:
Isaac Van Hagen

United States Patent Office.

ISAAC VAN HAGEN, OF CHICAGO, ILLINOIS.

Letters Patent No. 94,986, dated September 21, 1869.

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, ISAAC VAN HAGEN, of Chicago, in the county of Cook, and State of Illinois, have invented an Improvement in Adjustable Dampers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, and letters marked thereon, making a part of this description, in which—

Figure 1 is a perspective representation of my improvement, as it is arranged to operate with a joint of pipe.

Figure 2, an elevation of the inside of the disk, which, together with a spur on the handle of the damper-rod, holds the damper in position.

Figure 3, a vertical central section of the improvement, with a portion of the damper-plate broken away.

The present invention relates to an improvement in that class of dampers which, when properly adjusted in the pipe, are so locked in place that the draught may not be increased or diminished; and its nature consists in providing the spur which holds the handle of the damper-rod to a disk, with a spherical knob, whereby, when the knob is put through the disk, the damper will be held in a fixed position; and further, in the peculiar construction of the disk, and the manner of fastening it to the pipe, the whole operating in combination, as hereinafter fully described.

C represents an ordinary damper-rod, which is provided with a handle, D, and fastened to a sheet-metal damper, B, the opposite end of the rod from handle D having cast solid to it a spherical knob, E, which prevents the rod from being accidentally drawn out of the pipe A.

The handle D is provided with a spur, F, which is arranged to pass through any one of the holes I in a disk, H. A spherical knob, G, being cast solid to the

end of the spur, holds the latter in the hole in which it is put, unless it is purposely removed, as when the damper is being set on a different angle in the pipe A.

The hole in the pipe A being a little larger than the damper-rod C allows the spur F to bear on the metal surrounding the openings I, and consequently bring the knob G below the hole I, in any position the spur may have on the disk H. This disk is made of sheet-metal, and it is so formed where the holes I are made through it, as to provide a recess to receive the knob G, and it is so cut through its central part as to form triangular pieces, V V V V, fig. 2, which are put through the pipe A and clinched down, as shown at J J, fig. 3, to hold the disk in place.

By means of this construction and arrangement, the damper B is held on any angle corresponding to the number of holes I in the disk, and is operated much more conveniently than when a spring is used on the end E, to draw a pointed spur against a notched disk.

The operation is very simple, requiring only to adjust the damper B, that the knob G on spur F be drawn out of one hole I, and put into another, the labor to do this being so light as not to injure the hand with heat.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The sheet-metal disk H, provided with a recess inside of the holes I, to receive the knob G, in combination with the spur F, handle D, damper B, and damper-rod C, the latter being provided with a knob, E, to hold it in the pipe A, and the whole being constructed and arranged as and for the purpose set forth.

ISAAC VAN HAGEN.

Witnesses:

G. L. CHAPIN,
E. E. GIBSON.