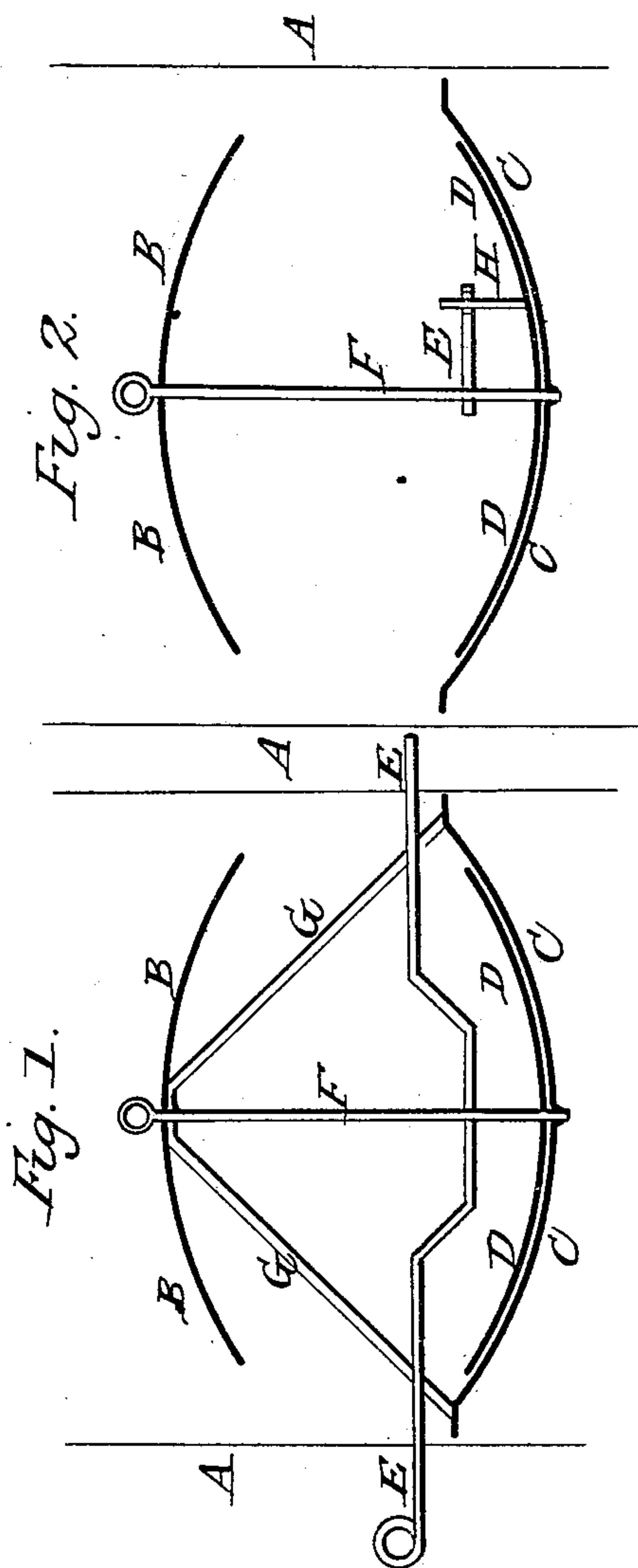


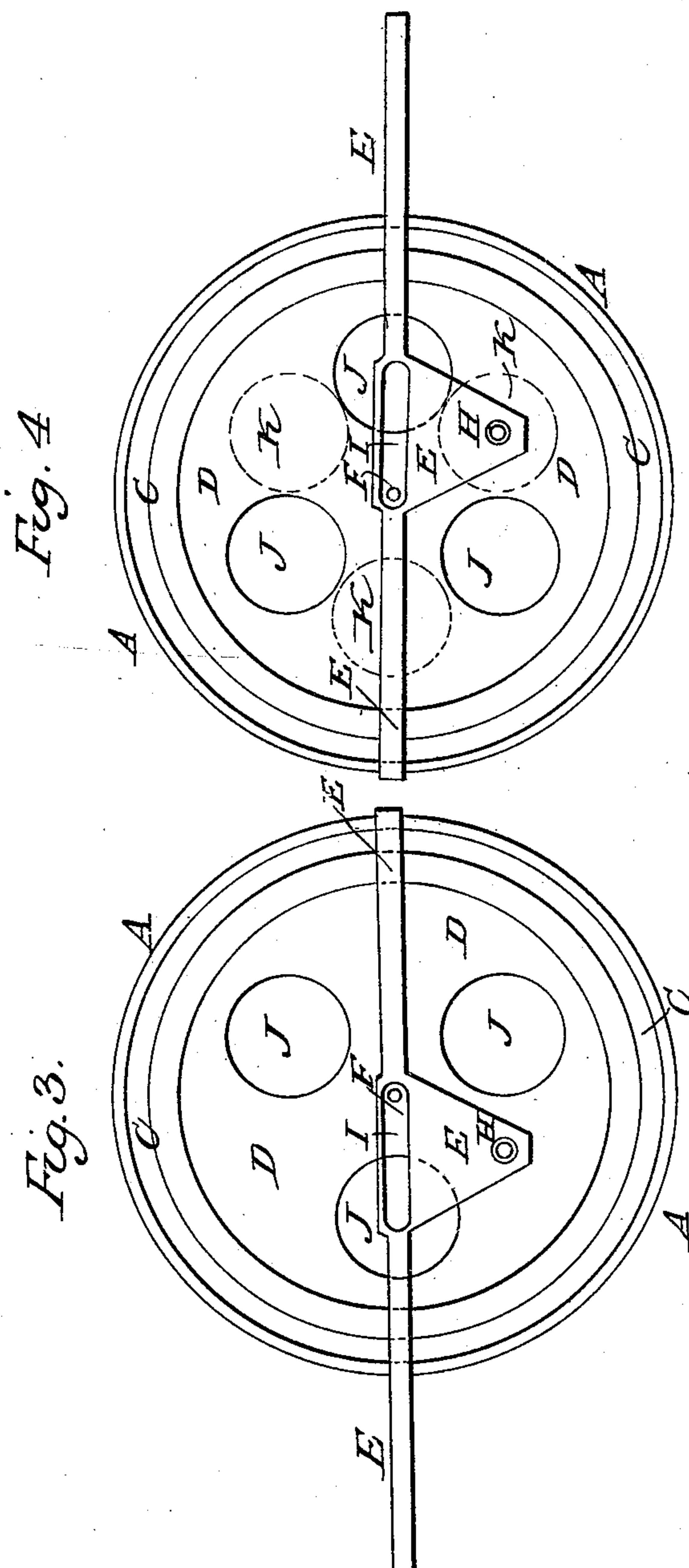
D. L. GROVER.
Stove Pipe Damper.

No. 53,605.

Patented April 3, 1866.



Witnesses:
L. A. Marsh
W. A. Clark



Inventor:
D. L. Grover

UNITED STATES PATENT OFFICE.

DEMAS L. GROVER, OF GROTON, NEW YORK.

STOVE-PIPE DAMPER.

Specification forming part of Letters Patent No. 53,605, dated April 3, 1866.

To all whom it may concern:

Be it known that I, DEMAS L. GROVER, of Groton, in the county of Tompkins and State of New York, have invented a new and useful Improvement in Stove-Dampers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a register in combination with a radiator, the whole attached to and being a part of a damper for a stove or stove-pipe.

To enable others skilled in the art to make and use my improvements, I will proceed to describe its construction and operation, referring to the annexed drawings, making a part of this specification, in which—

Figures 1 and 2 are transverse sections in planes at right angles with each other—Fig. 1 representing the damper inserted in the stove-pipe in a horizontal position, Fig. 2 representing the damper inserted in the stove-pipe in a horizontal position at right angles with Fig. 1. Figs. 3 and 4 are plan views.

I construct the whole of any metal suitable for the purpose, and perforate the plates C and D with suitable holes J and K, so situated, relatively, that when the plates C and D are in their proper position they will form a register.

The plates C and D, I construct of a convex form, placing them in such a position that the convexity will be toward the fire when the damper is in position shown in Figs. 1 and 2. To the plate C are fastened, by rivets or otherwise, the stays G G, which are fastened to the outside edge or rim of the plate C, running thence toward the center, at an angle of about forty-five degrees, until they converge at a point about five inches above the plates C and D, as shown in Fig. 1.

The plate B, I construct of a less diameter than the plate C, which should be of a form and size to fill the stove-pipe, leaving sufficient room for the free operation of the damper. This plate B, I fasten on the outside of the stays G G with its concavity toward the fire, when the damper is in the position shown by Fig. 1, for the purpose of forming a radiator,

and is fastened to its place by means of the support F, as shown by Figs. 1 and 2.

The support F is riveted to the outside of the plate C, running thence through a slot or hole in the plates D, the handle E, the stays G G, and the plate B, which plate B is situated about five inches above the plate D. This support F is constructed of wire, of suitable size for the purpose, and fastens the whole firmly together by being riveted at each end.

The rod E passes through slots or holes in the side of the stove-pipe, and is of sufficient length to permit the turning of plate D, the center of the handle E being provided with a projection on one side of about one and one-half inch in length and tapering to a point, the point being provided with a suitable hole for the admission of the connecting-pin H, Figs. 2, 3, and 4.

About the center of the handle E is a slot, I, one and one-half inch in length by about one-fourth of an inch in width, for the admission of the support F. This slot I is constructed so that the handle E may be moved back and forth.

To the plate D is fastened, by riveting or otherwise, the connecting-pin H, which passes through the projection of the handle E. This pin H, connecting the handle E, is fastened to the plate D about one and one-half inch to one side of the center of the plate D, so that the plate D may be turned by pulling out or pushing in of the handle E, so that the holes J and K in plates C and D may coincide or otherwise, as desired, thus forming a register which, when combined with the plate B, the stays G G, the support F, the connecting-pin H, the handle E, as herein described, forms a damper.

This damper may be inserted inside of the stove-pipe in the manner described, or in any other suitable place in or about a stove in the same manner, when so placed as to effect the desired end—viz., the more perfect regulation of the draft and retaining or radiating the heat of a stove.

Having described the construction and operation of my improvements, sufficiently to enable others skilled in the art to make and use

the same, I will proceed to state what I claim and desire to secure by Letters Patent of the United States.

1. The plates C, D, and B, the pin F, and stays G, when constructed and operated in the manner described, and for the purposes specified.

2. The handle E, and the connecting-pin H,

when constructed and arranged in combination with the plates and supports, so as to operate in the manner described.

DEMAS L. GROVER.

Witnesses:

A. BURRITT,
GEORGE H. BUISTOL.