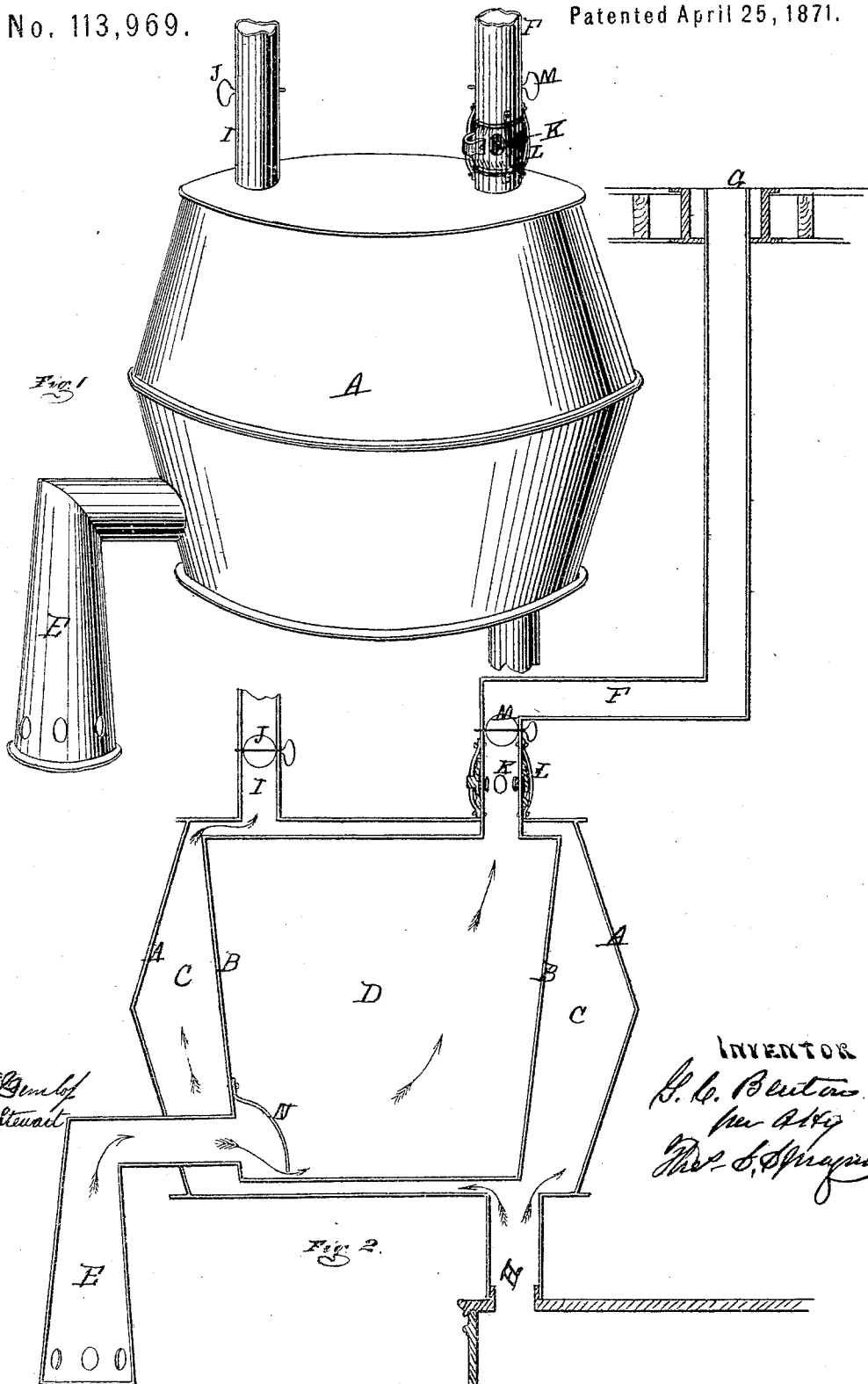


G. C. BENTON.

Improvement in Stove-Drums.

No. 113,969.

Patented April 25, 1871.



ATTEST

A. F. Gumbel
W. Stewart

INVENTOR

G. C. Benton
per Atty
Wm. S. Sprague

United States Patent Office.

GODERICH CROUTER BENTON, OF PORT HURON, MICHIGAN.

Letters Patent No. 113,969, dated April 25, 1871.

IMPROVEMENT IN STOVE-DRUMS.

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

To whom it may concern :

Be it known that I, GODERICH CROUTER BENTON, of Port Huron, in the county of St. Clair and State of Michigan, have invented a new and useful Improvement in Stove-Drums and Heat-Distributers; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improvement.
Figure 2 is a vertical section of the same.

Like letters indicate like parts in each figure.

The nature of this invention relates to an improved drum to be attached to heating or other stoves, by means of which cold air is taken up from near the floor, passed through the drum, heated in such passage, and discharged into rooms above, thereby heating them without in the least detracting the heating capacity of the stove in the room where it is situated.

The invention consists in the peculiar construction and arrangement of the various parts to produce the desired end, as more fully hereinafter described.

In the accompanying drawing—

A represents the outer shell of the drum, and

B the inner shell.

C is an annular space between the two shells, and

D a heating-chamber.

E is an air-pipe, open at its lower end near the floor to receive cold air, which is discharged into the heating-chamber D, where it is heated, and finds an outlet through the pipe F, which may terminate at an opening or register in the floor above, as shown at G.

A pipe, H, connects the stove with the outer shell and the annular space C, and conducts the smoke and

other products of combustion which pass into said annular space and find egress through the smoke-pipe I into a flue or chimney.

This pipe is provided with a damper, J, for the usual purpose of checking and regulating the draught.

The pipe F, just above the drum, is provided with a series of perforations, K, and has sleeved upon it a short section of pipe, L, provided with corresponding perforations, so arranged that the partial rotation of the section L will open or close the perforations in the pipe F, when desired.

Immediately above this series of perforations is placed a damper, M. By closing this damper and opening the perforations the heat is prevented from ascending, and is discharged into the room below. When the damper is opened and the perforations closed the heat will freely pass upward to the room above.

N is a diaphragm in the heating-chamber, against the opening for the admission of cold air, to prevent its direct passage to the pipe F and distribute in said chamber.

What I claim as my invention, and desire to secure by Letters Patent, is—

The perforations K in the pipe F, the section of pipe L, and the damper M, in combination with the drum, composed of an outer shell, A, and inner shell B, and air-pipe E, and pipes H I, when each part is constructed and arranged to operate substantially as and for the purposes set forth.

GODERICH CROUTER BENTON.

Witnesses:

THOS. S. SPRAGUE,
M. STEWART.