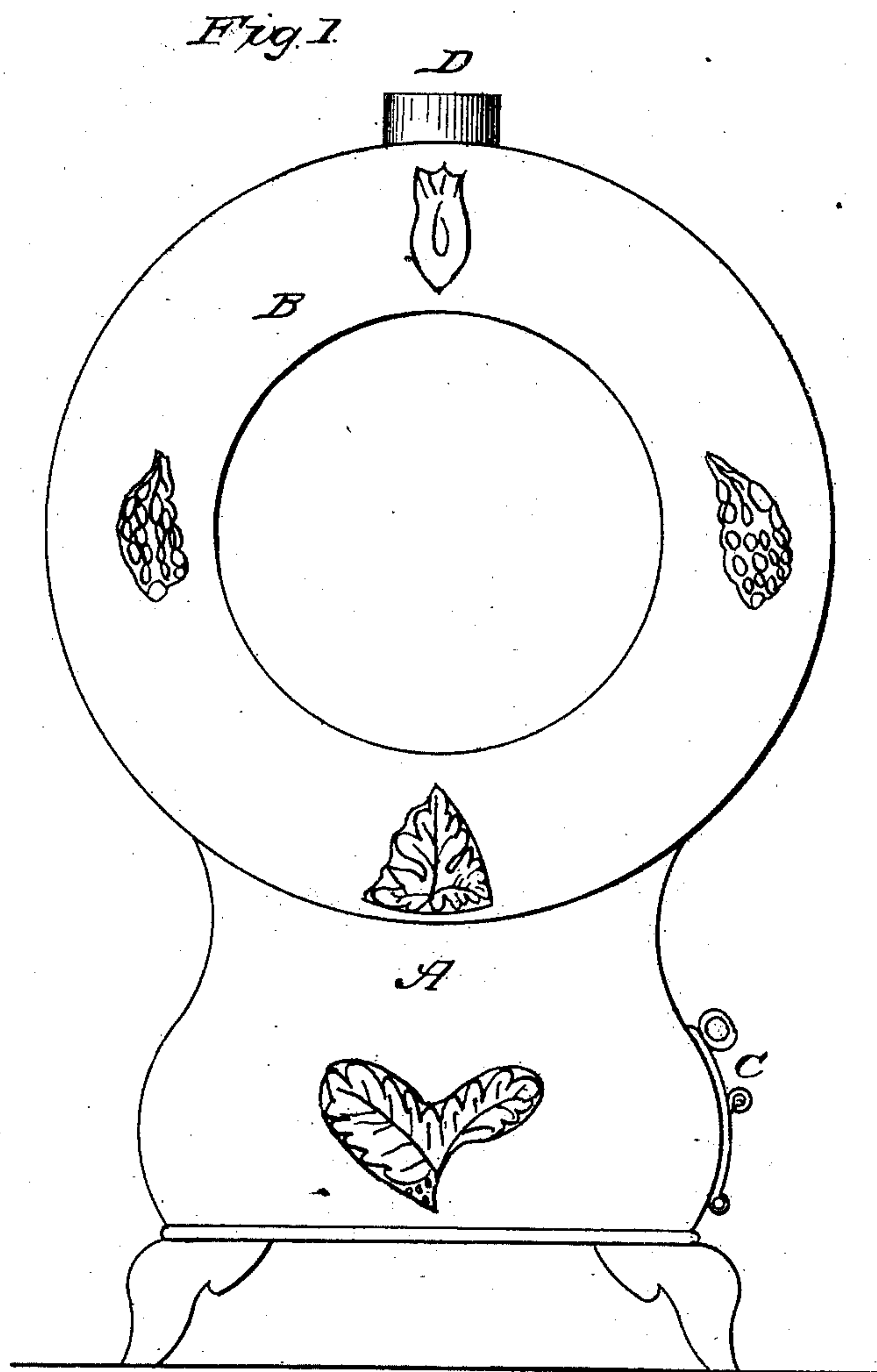


A. S. BALLARD.

Drum Stove.

No. 41,354.

Patented Jan. 26, 1864.



Witnesses
V. Clayton
John P. Jacobs

Inventor
Allen S. Ballard,
per atty Clayton & son

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2 Sheets—Sheet 2.

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Fig. 2

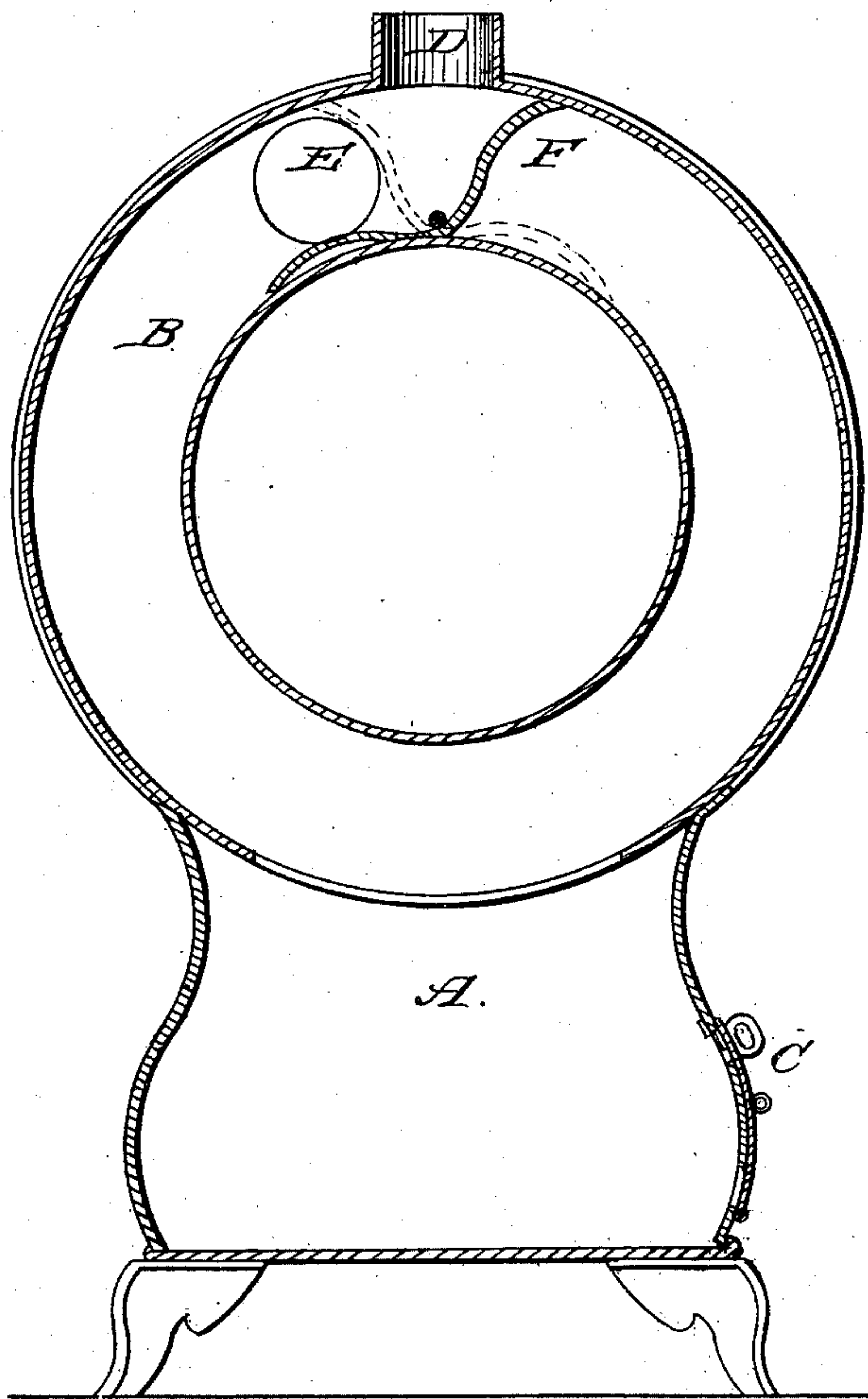
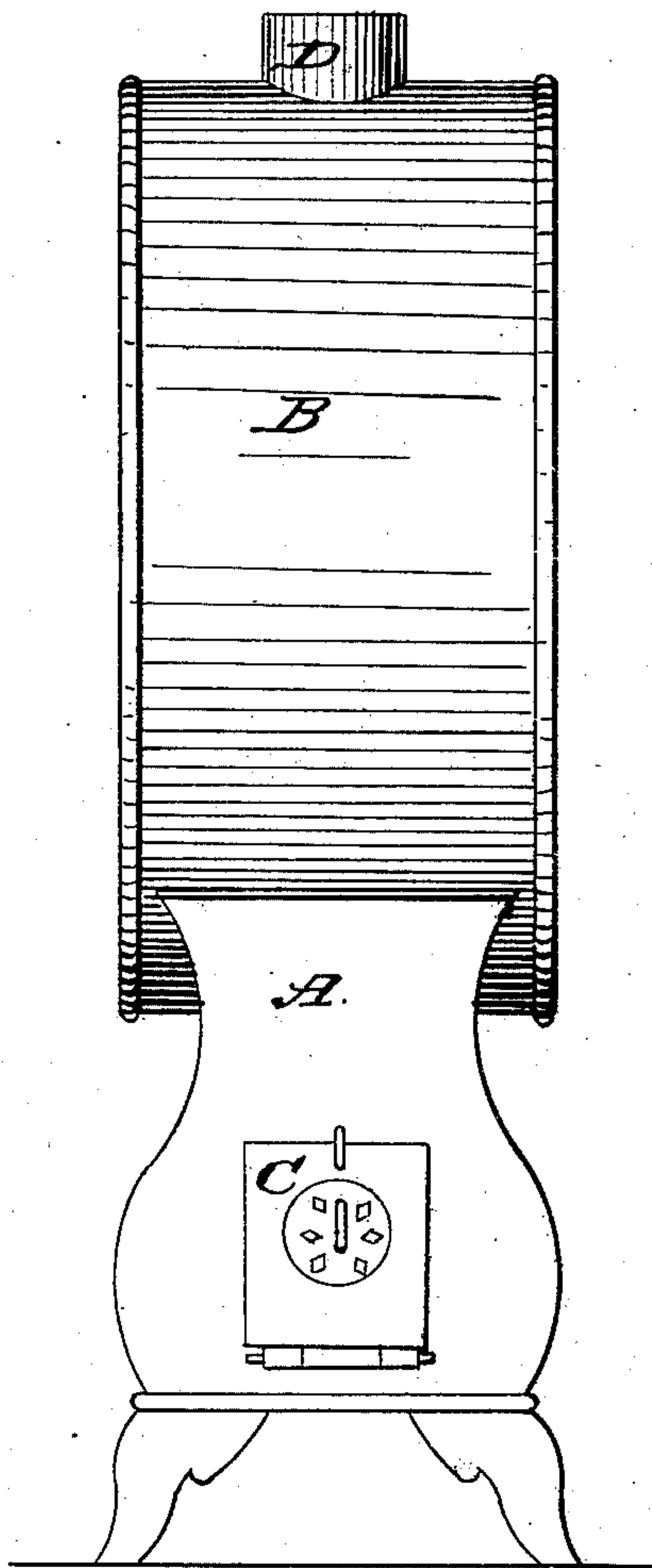


Fig. 3



witnesses
W. H. Dayton
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Inventor
Allen S. Ballard,
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UNITED STATES PATENT OFFICE.

ALLEN S. BALLARD, OF MOUNT PLEASANT, IOWA.

IMPROVEMENT IN DRUM-STOVES.

Specification forming part of Letters Patent No. 41,354, dated January 26, 1864.

To all whom it may concern:

Be it known that I, ALLEN S. BALLARD, of Mount Pleasant, Henry county, in the State of Iowa, have invented a new and useful "Parlor Heating-Drum;" 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.

In the drawings similar characters refer to like parts.

Figure 1 is a front elevation. Fig. 2 is a longitudinal vertical section. Fig. 3 is a side elevation.

The nature of my invention consists in combining an annular drum (its axis being horizontal) with a base provided with a door and register, so that the drum can be used either as a mere "drum" for warming a room with heat received from a stove in another apartment, or as a stove generating the heat it distributes; and, also, in the peculiar manner of constructing and operating the damper placed in the annular drum.

A is the base of my improved parlor heating-drum, of the general form represented in the drawings—that is, an oblong having its sides formed in an ogee curve, or of other proportions in harmony with the curves of the drum.

B is the annular drum, being in form a section of an annular cylinder, and of the length equal to the conjugate diameter or width of the base. This drum is set upon the base so that the axis of the drum is parallel with and immediately over the conjugate axis of the base, and also in such a manner that the ogee-curves of the ends of the base shall blend with the external curve of the drum.

C is a falling hinged door (provided with a register) in one end of the base.

D the smoke-pipe in the highest portion of the drum.

E is the pipe in the rear of the drum, and having its periphery in line with the periphery of the smoke-pipe. This pipe E is intended to supply the drum with heat from a stove in another apartment, when I use this apparatus

without fire in the base, and when fire is used in the base this pipe will serve to convey heat to another room.

F is the double damper in the drum, having its pivot immediately under and in line with the center of the smoke-pipe.

My improved drum is intended to be used either as a mere drum for the dissemination of heat generated by an independent stove, or as a stove and drum combined, having the fire made within its own base. The double damper is intended to change the draft from the flue D, to down around the annular drum B. When used as a mere drum, the register is closed and the damper turned, as shown in Fig. 2, so as to throw the heat into the flue and prevent the condensation which would happen if the heat were thrown into the drum. After the flue is heated, the damper is changed as indicated by dotted lines, and the heat is made to circulate throughout the drum before it escapes with the smoke out of the pipe D. When used as a stove, the register in the door regulates the draft. If it is then intended to furnish heat to another apartment, a suitable pipe is connected to the pipe E. This pipe may lead to another drum, which should be provided with a damper to cut off the heat, or another damper for that purpose may be put in the pipe E.

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

The combination and arrangement of the base A, annular drum B, damper C, and pipes D and E, the whole forming a parlor heating-drum, constructed and operating substantially as herein set forth.

In testimony that I claim the above I hereunto set my hand this 20th day of November, 1863.

ALLEN S. BALLARD.

In presence of—

GEO. W. TRIMBLE,
W. D. LEEDHAM,
C. SCHULTZ.