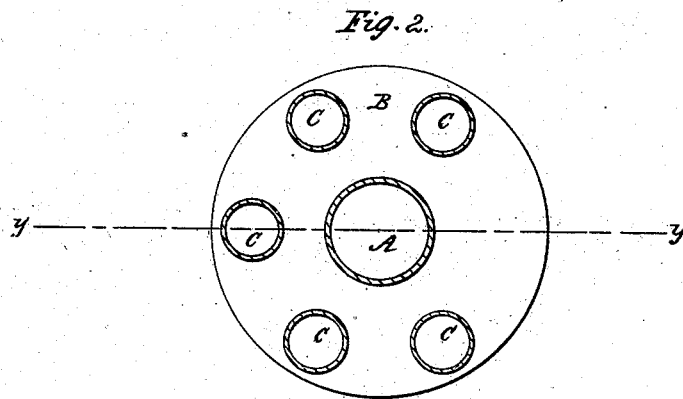
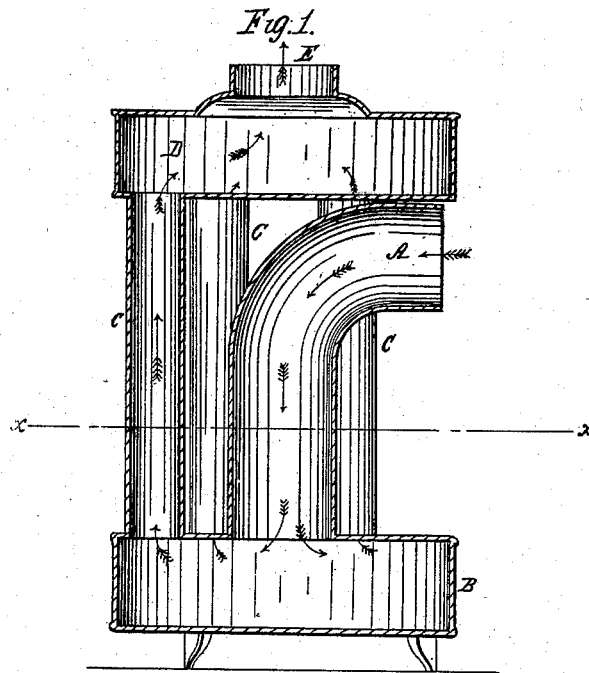


D. M. YOUNKMAN.

Drum Stove.

No. 48,231.

Patented June 13, 1865.



Witnesses:

Theo. Tuck
H. C. Brewin

Inventor:

D. M. Younkman
By H. M. Hunt

UNITED STATES PATENT OFFICE.

D. M. YOUNKMAN, OF FREMONT, OHIO.

DRUM-STOVE.

Specification forming part of Letters Patent No. **48,231**, dated June 13, 1865.

To all whom it may concern:

Be it known that I, D. M. YOUNKMAN, of Fremont, in the county of Sandusky and State of Ohio, have invented a new and useful Improvement in Drum-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents an elevation of a vertical section of a drum-stove made according to my invention, the section being taken on the line *y* of Fig. 2. Fig. 2 represents a plan of a horizontal section on the line *x* of Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to the class of stoves known as "drum-stoves," which are heated by means of currents of hot air and of the products of combustion; and it consists in an improved arrangement of flues and other parts, whereby a more economical use is made of the heat which it is to be the medium of distributing.

B is a lower, and D an upper, flue-chamber. They are each cylindrical in form and of any convenient height which will allow a free circulation of the hot gases and vapors delivered within them. The lower cylinder or chamber

is raised off from the floor by means of legs applied in any convenient way.

The letters C designate pipes, which extend vertically between the flue-chambers. They are arranged in circular form near the circumference of the chambers. The top of the upper chamber is made with a dome-shaped central elevation, F, from the center of which starts the eduction-pipe E. The object of this dome-shaped elevation is to facilitate the passage of the smoke and hot air into the eduction-pipe, so that their currents will not be obstructed and set back.

A designates the eduction-pipe. It is an elbow-shaped pipe rising vertically from the center of the top of the lower flue-chamber and bending outward, so that its mouth is in a horizontal line directly beneath the upper chamber. The course of the products of combustion is indicated by red arrows.

The flues or pipes C may be of any convenient number and size.

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

The drum-stove herein set forth, as a new article of manufacture.

D. M. YOUNKMAN.

Witnesses:

F. I. NORTON,
D. W. GOULD.