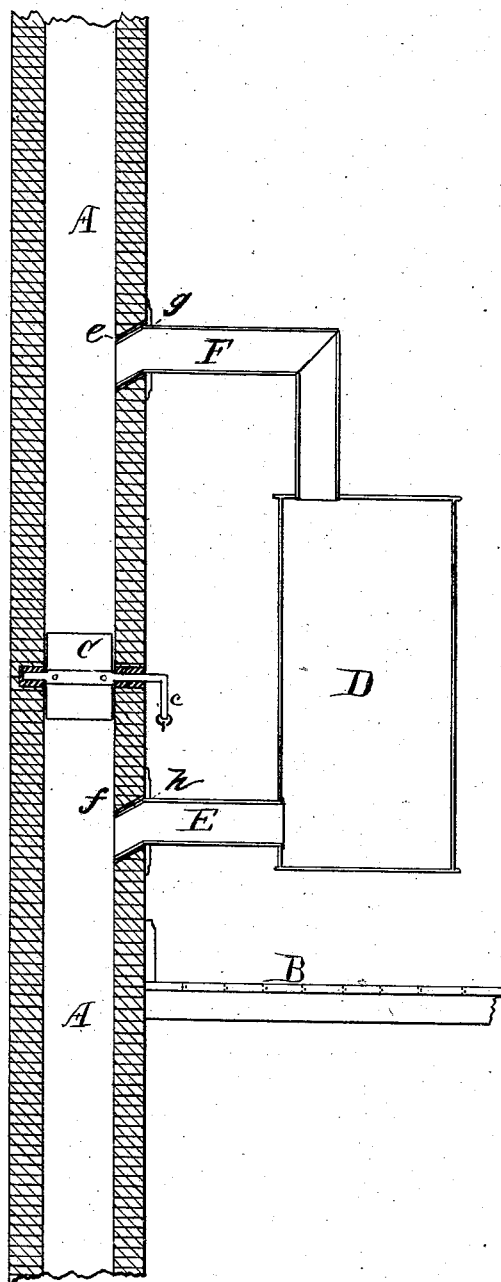


(No Model.)

D. ORTH.
HEATING DRUM.

No. 261,379.

Patented July 18, 1882.



Witness,
M. E. Norton,
Frank W. Tibbitts.

Inventor,
David Orth,
By Geo. W. Tibbitts Atty.

UNITED STATES PATENT OFFICE.

DAVID ORTH, OF CLEVELAND, OHIO.

HEATING-DRUM.

SPECIFICATION forming part of Letters Patent No. 261,379, dated July 18, 1882.

Application filed January 30, 1882. (No model.)

To all whom it may concern:

Be it known that I, DAVID ORTH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Heating-Drums, of which the following is a specification.

The nature and objects of this improvement will fully appear from the following description when considered in connection with the accompanying drawing, in which the figure shows a sectional view of a chimney having a damper and a heating-drum attached, illustrating my method.

A represents an ordinary brick chimney.

15 B is the floor of an upper room.

C is a damper arranged in the chimney a short distance from said floor, for closing the flue in said chimney when desired.

20 D is a sheet-metal drum, provided at or near the bottom and also at the top with pipes E and F, the said lower pipe, E, connecting the drum to the chimney-flue below the damper, and the pipe F connecting it with the flue above the damper, as shown.

25 The chimney is provided with two holes for the reception of the aforesaid pipes in such a manner as to hold the said pipes and the drum in place without any other means of support. This consists in making said holes in a diagonal line through the brick wall, sloping or pitching downward into the flue, and providing said holes with thimbles or sleeves *e f* in the same diagonal line.

30 The ends of the pipes E and F also have

half-elbows *g h*, made on their ends to fit into said thimbles. By constructing the holes and ends of the pipes thus the half-elbows serve as hooks for holding and retaining the drum in place. This leaves the space between the floor and the bottom of the drum free and clear from obstruction for sweeping the floor.

40 The damper C has a lever, *c*, on its axle for the purpose of turning it. The walls of the chimney also have suitable metal boxes set in them for the axles of the said damper to turn in.

45 In the warm season of the year, when it is desired to keep the chimney-flue open, the lever of the damper may be weighted to keep the damper in a perpendicular position.

50 From the foregoing the operation of this device is as follows: By turning the damper across the flue and closing the direct draft the draft will be diverted and the heated air and smoke must pass through the drum, thus employing the heat which would otherwise pass off through the chimney and radiating said heat through the medium of said drum for warming the room.

Having described my invention, I claim—

60 The combination of the inclined thimbles or sleeves *e f*, the pipes E F of the drum D, each pipe having the half-elbows *g h*, and the chimney A, having the damper C, all operating as shown and described.

DAVID ORTH.

Witnesses:

GEO. W. TIBBITTS,
M. G. NORTON.