(No Model.)

R. P. DAYTON.

HEAT RADIATOR.

No. 596,856. Patented Jan. 4, 1898.

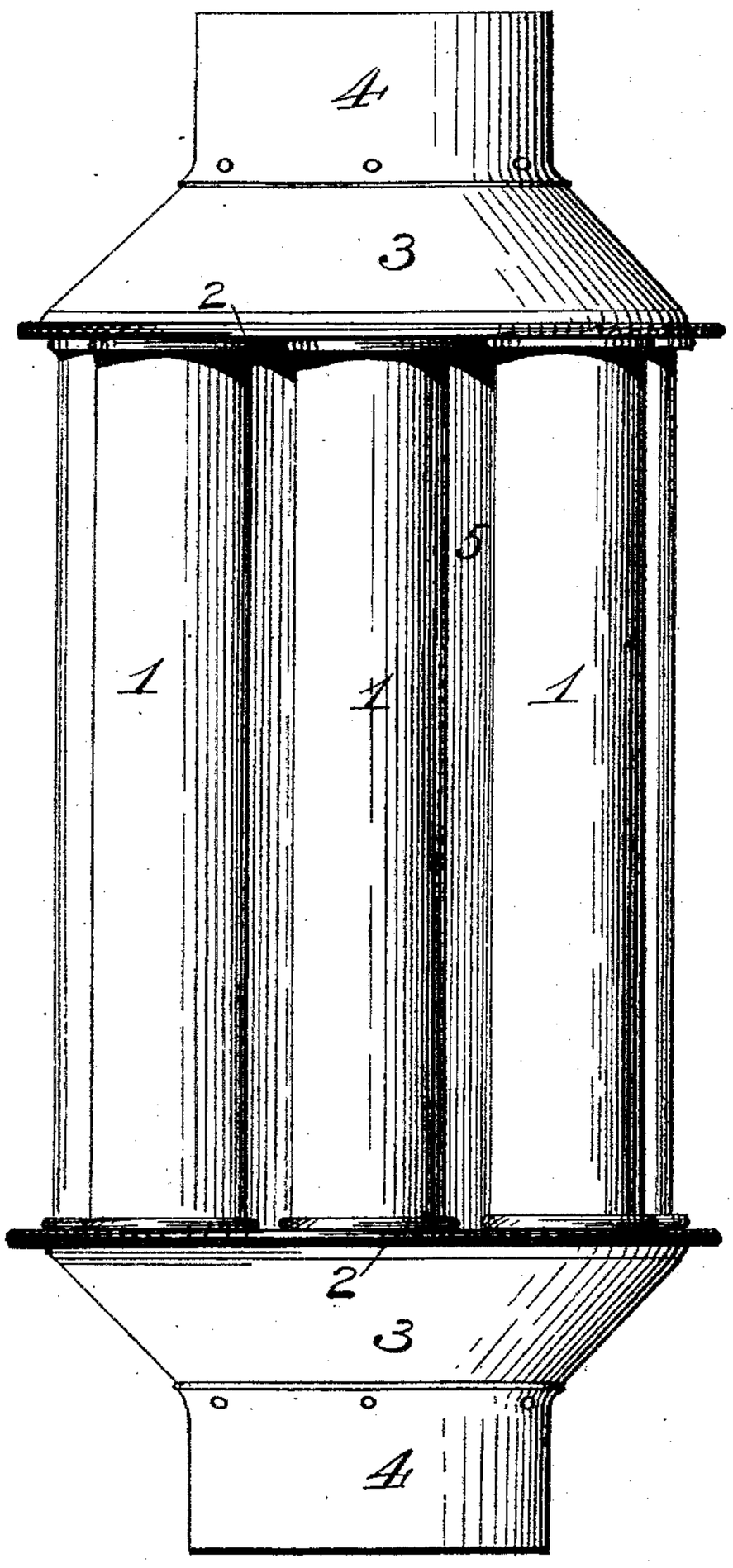

Fig. 1

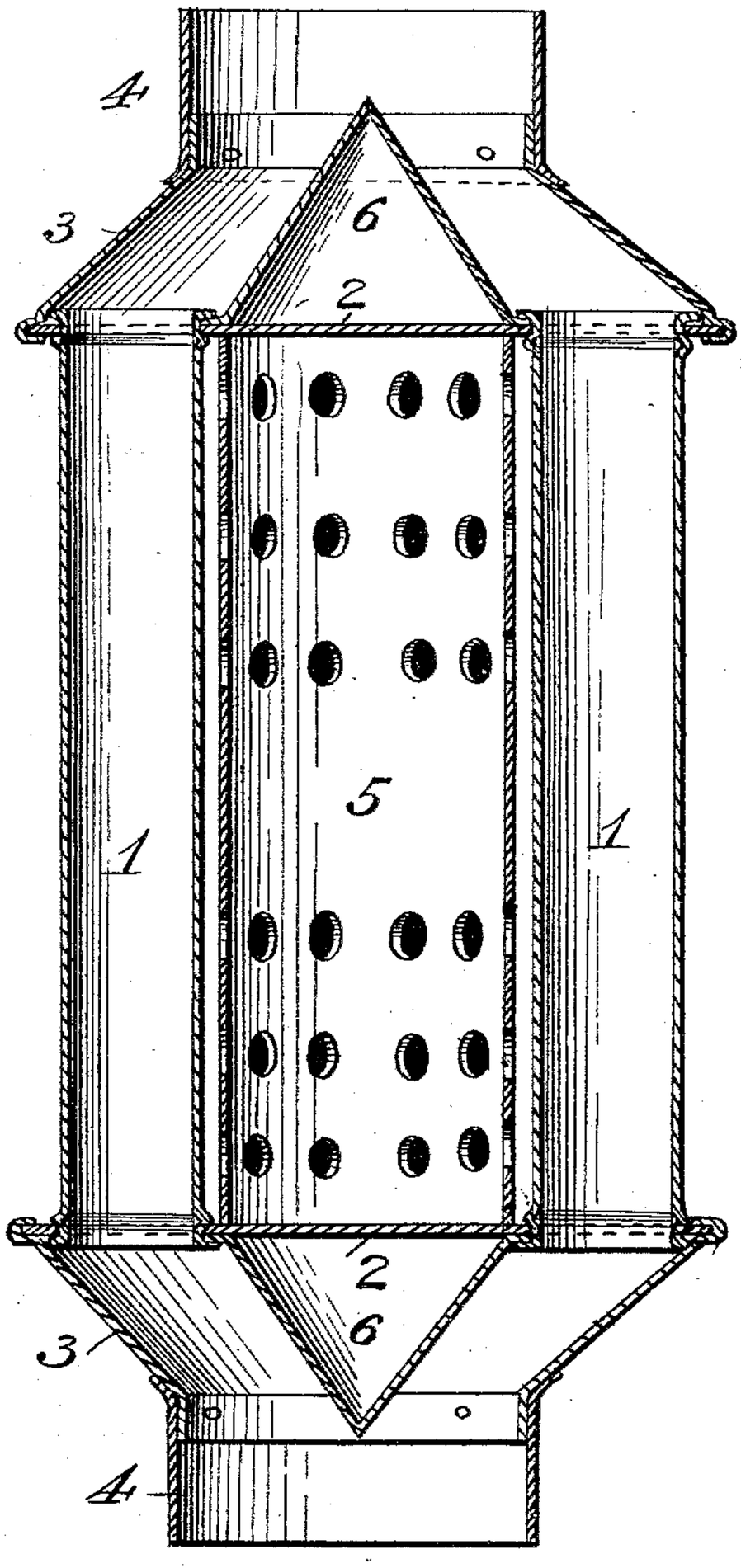

Fig. 2.

Witnesses:
Franck L. Durand.
Jos. L. Coombs

Inventor:
Romain P. Dayton,
by Lowis Bagger & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

ROMAIN P. DAYTON, OF EATON RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO EDWIN D. GOODRICH, OF SAME PLACE.

HEAT-RADIATOR.

SPECIFICATION forming part of Letters Patent No. 596,856, dated January 4, 1898.

Application filed August 6, 1897. Serial No. 647,318. (No model.)

To all whom it may concern:

Be it known that I, ROMAIN P. DAYTON, a citizen of the United States, and a resident of Eaton Rapids, in the county of Eaton and State of Michigan, have invented certain new and useful Improvements in Heat-Radiators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to heating-drums adapted to be connected with a stovepipe, so that the waste heat from a stove may be utilized for heating a room above or adjoining that in which the stove is located.

The object of the invention is to provide an improved construction of the same which shall possess superior advantages with respect to efficiency in use.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a heating-drum or radiator constructed in accordance with my invention. Fig. 2 is a central longitudinal section of the same.

In the said drawings the numeral 1 designates a series of vertical pipes arranged in a circle around a common center. Any number desired of these pipes or tubes may be employed, and they are connected at the upper and lower ends with heads 2, consisting of circular plates or disks. Connected with these heads are flaring or conically-shaped breasts 3, provided with cylindrical collars 4 at the ends adapted to engage with stovepipes.

The numeral 5 designates a central perforated tube having conical ends 6, which extend into the breasts 3.

In use one end of the radiator is connected with the pipe extending from a stove, while the other end is connected with an escape-pipe. The smoke and unconsumed products of combustion from the stove will enter the lower end of the radiator and ascend through the pipes or tubes 1 and escape at the upper end thereof. During the passage of the smoke said pipes will be highly heated and the room heated by radiation therefrom. At the same time air will enter the perforations at the lower part of the central tube and becoming heated will escape at the upper part thereof, thus keeping up a constant circulation in the room.

Having thus fully described my invention, what I claim is—

In a heat-radiator or drum, the combination with the vertical pipes, the heads, the breasts and the collars, of the central perforated tube having conical ends extending into said breasts, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ROMAIN P. DAYTON.

Witnesses:

EDWIN S. HARRIS,

CYRUS B. CHILDS.