

G. W. VOSBURGH & H. VAN SLYCK.

STOVE-DRUM.

No. 189,530.

Patented April 10, 1877.

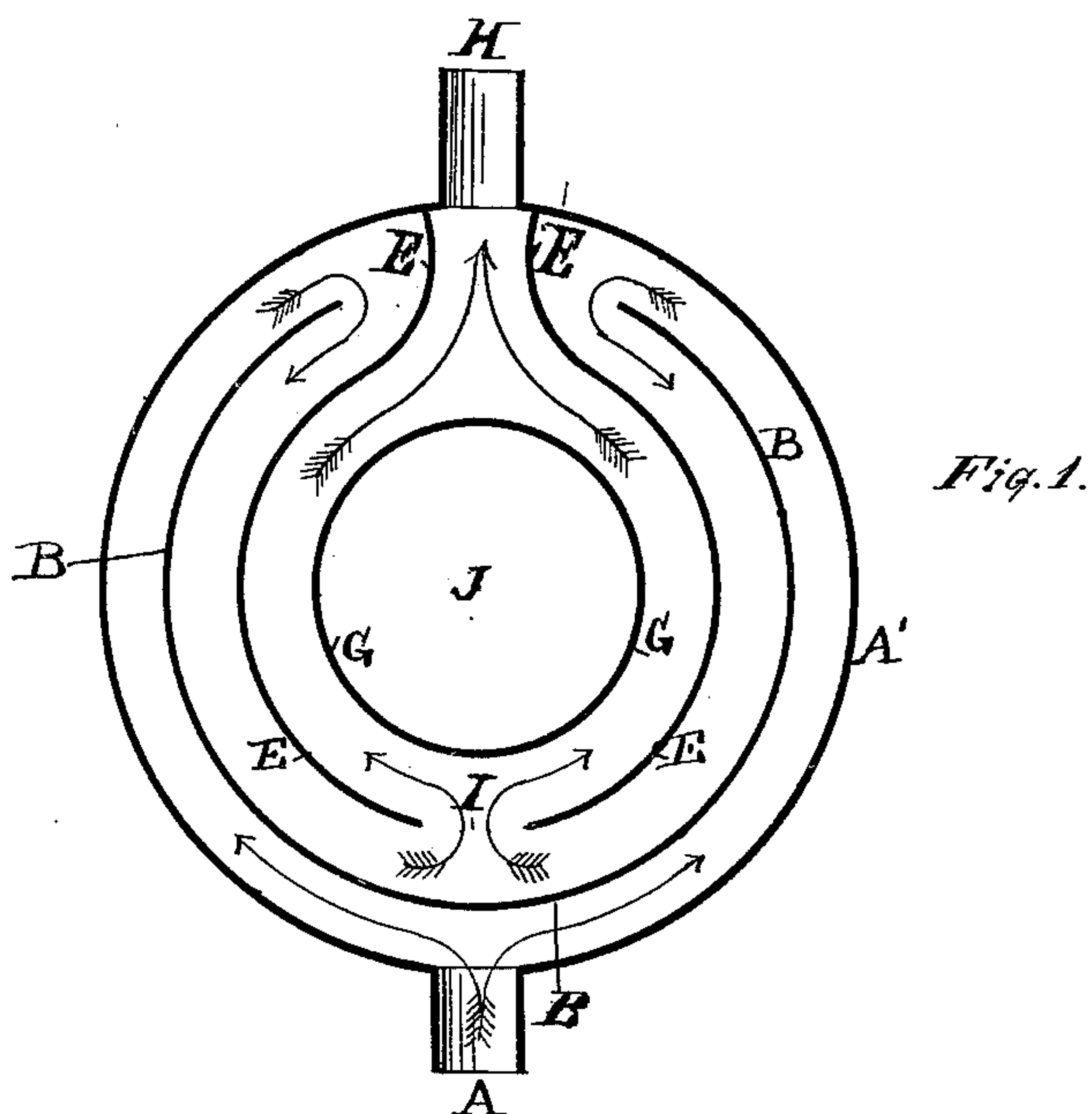


Fig. 1.

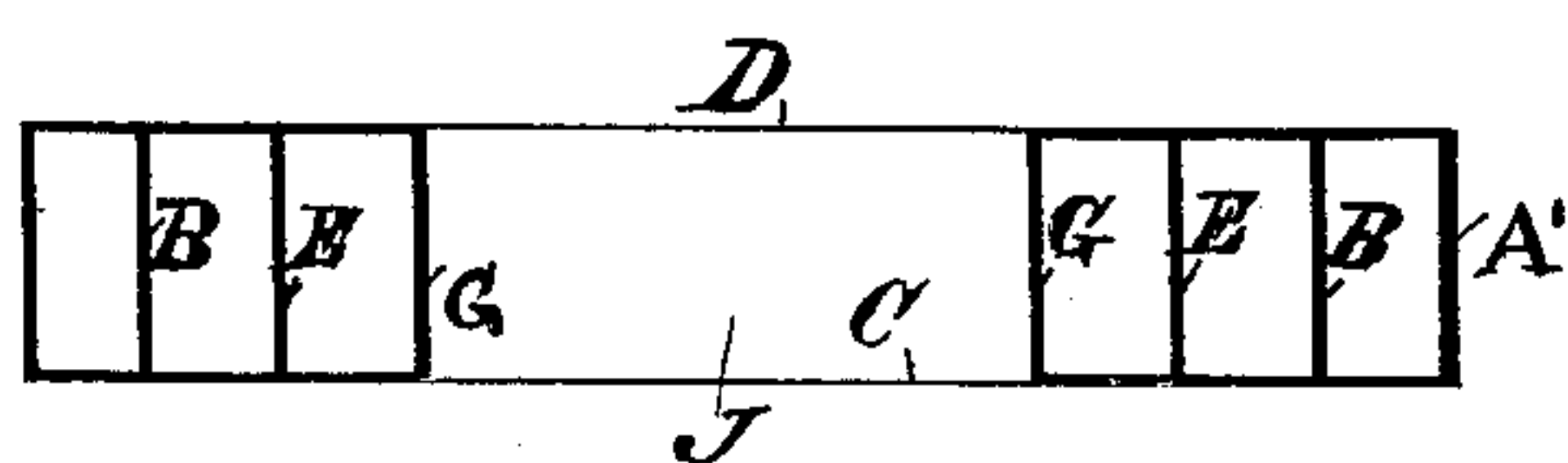


Fig. 2.

WITNESSES:

J. O. v. Hatto  
D. G. Stuart

INVENTORS:

George W. Vosburgh and  
Henry Van Slyck  
By Jas. B. Ennis Atty.

# UNITED STATES PATENT OFFICE.

GEORGE W. VOSBURGH AND HENRY VAN SLYCK, OF WATERLOO, WIS.

## IMPROVEMENT IN STOVE-DRUMS.

Specification forming part of Letters Patent No. **189,530**, dated April 10, 1877; application filed December 29, 1876.

*To all whom it may concern:*

Be it known that we, GEORGE W. VOSBURGH and H. VAN SLYCK, of Waterloo, in the county of Jefferson and State of Wisconsin, have invented certain new and useful Improvements in Stove-Drums; and we do hereby declare that the following is a full, clear, and exact description thereof, 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, and to letters of reference marked thereon, which form a part of this specification.

The object of our invention is to furnish a cheap stove-drum or heater, constructed of sheet-iron, which may be attached to all ordinary stoves, or to the stove-pipe at any point above the stove, whereby the hot air from the fire is prevented from escaping to the chimney, and is retained and radiated in the room to be heated, and whereby great extent of radiating-surface is obtained in small compass, all of which is more fully set forth and explained by reference to the accompanying drawings, of which—

Figure 1 is a front view of the drum, the front plate being removed to expose to view the partitions and flues. Fig. 2 is a top view of the same.

A is a short pipe corresponding in size to the stove-pipe to be used. It is attached to the periphery of the drum, and may rest upon the stove or be attached to the pipe above it, as desired. The smoke and hot air pass from the stove through the pipe A into the drum

A'. B is a partition. It is attached to the front and back plates C and D of the drum by rivets or their equivalents.

The partition-plate B obstructs the direct upward current of hot-air and separates it toward the right and left, as indicated by the arrows, when it strikes against the partition-plates E E, then passes downward to the opening at I, and is again diverted toward the right and left by the cylindrical plate G, and passes upward, and escapes through the pipe H. J is an opening through the center of the drum, having no connection with its interior, through which the external air has free circulation, and also adds to the radiating-surface of the drum.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A stove-drum constructed, as described, with the external central opening or air-passage J, and the internal deflecting-partitions B E E, arranged as described, so as to cause the products of combustion to circulate within, and not pass directly through, the drum, substantially as set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

GEORGE W. VOSBURGH.  
HENRY VAN SLYCK.

Witnesses:

J. L. THOMPSON,  
A. E. BURNHAM.