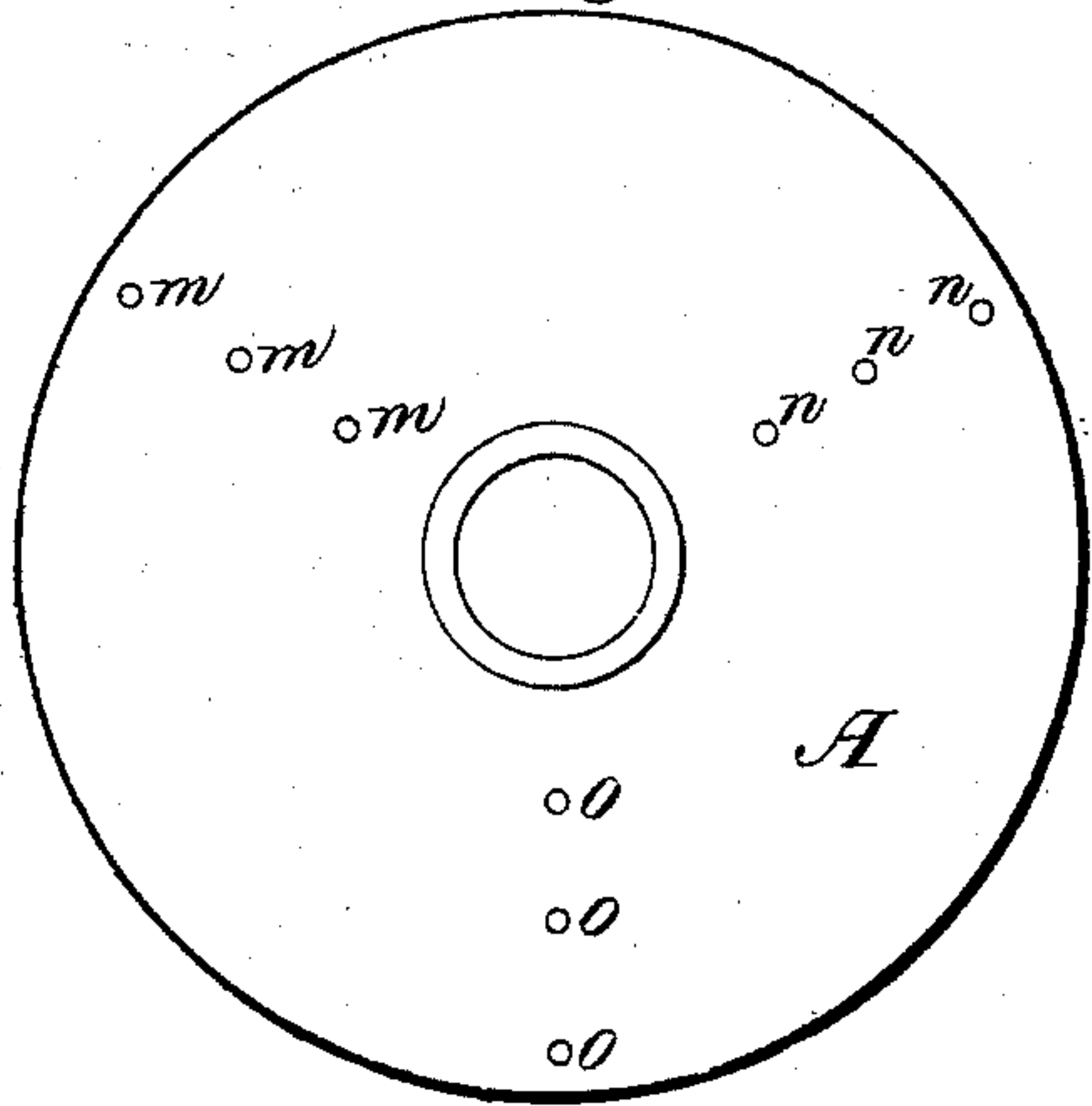


S. BURGESS.  
Barrel Heater.

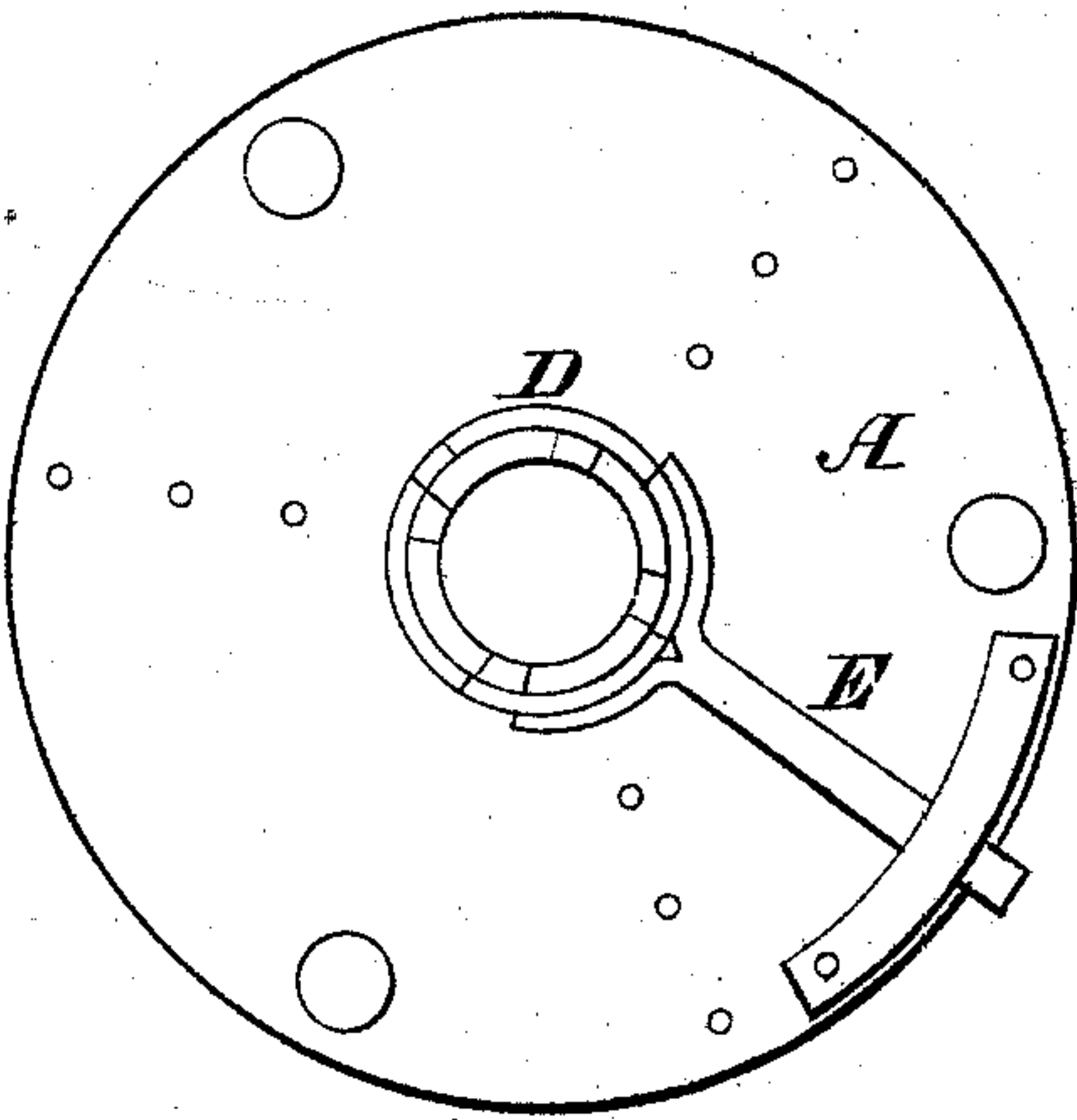
No. 17,076.

Patented April 21, 1857.

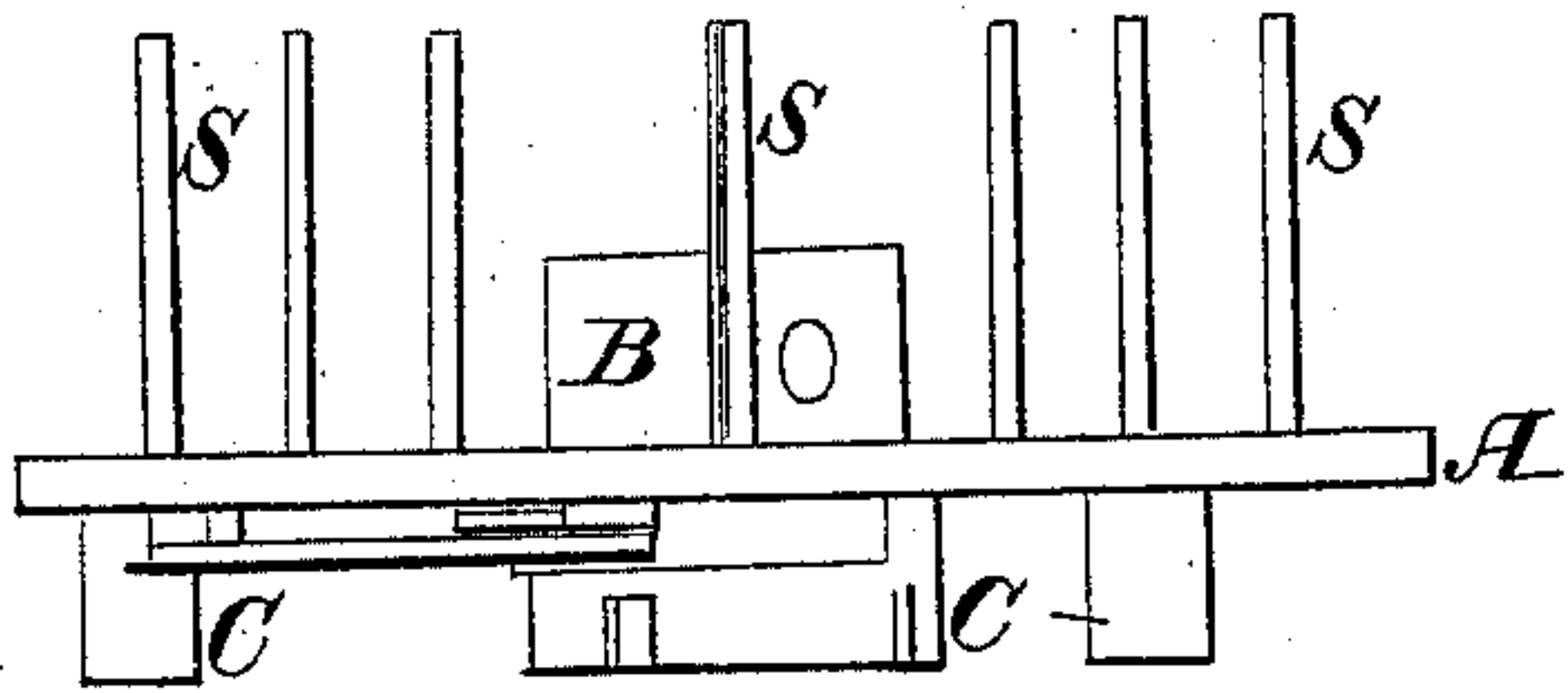
*Fig. 1.*



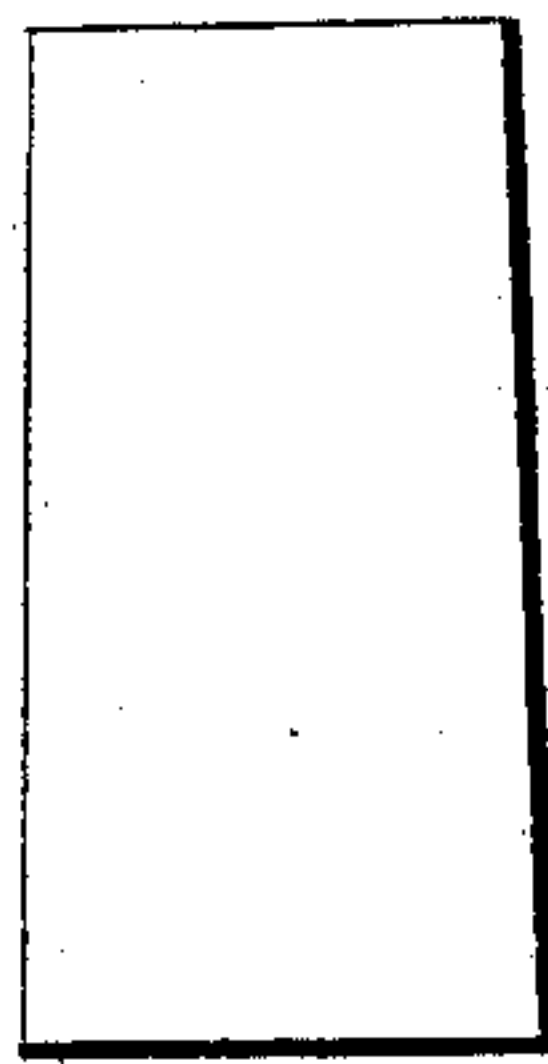
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



# UNITED STATES PATENT OFFICE.

SIMEON BURGESS, OF WAYNE, PENNSYLVANIA.

CASK-HEATER.

Specification of Letters Patent No. 17,076, dated April 21, 1857.

*To all whom it may concern:*

Be it known that I, SIMEON BURGESS, of the town of Wayne, in the county of Erie, in the State of Pennsylvania, have invented  
5 a new and Improved Apparatus for Heating the Inner Surface of Casks, of which the following description, illustrated by the accompanying drawings, is sufficiently clear and comprehensive to enable persons of com-  
10 petent skill to make and use my invention.

My invention consists in first combining with the cylindrical fire pot, a circular hearth for supporting the cask which is provided with movable pins for the cask in its  
15 place in a position concentric with the fire pot as hereinafter set forth.

Figure 1, is a top view; Fig. 2, a bottom view, looking upward; Fig. 3, a side elevation; Fig. 4, a movable tubular conductor.

20 Fig. 1, represents the upper surface of the hearth A.

*m m m*, *n n n*, *o o o*, are rows of pin-holes, on radial lines on the hearth. The pins *s s s*, Fig. 3 are inserted in these pin-  
25 holes, for the adjustment of the cask to be heated.

B, Fig. 3, is the fire-pot. It is inserted in the center of the hearth passing through it,

and extending about an equal distance above and below it. 30

*u u*, are air holes at the bottom of the fire-pot.

C C are supporters of the hearth.

D, Fig. 2, is a movable cylinder encircling the fire-pot below the hearth. It contains 35 apertures corresponding to the air holes of the fire-pot. To this cylinder is attached the lever E, which extends outwardly on the under surface of the hearth, beyond its circumference. The cylinder is turned on its 40 axis by the lever, thus forming a damper.

The movable tubular conductor Fig. 4, is placed on the hearth over the fire-pot and overlapping it. It is used to convey the heat to the upper part of the cask, and may 45 be removed at pleasure.

I claim—

Combining with the fire pot B, the encompassing hearth A, with the adjustable pins for securing casks of different sizes in 50 a concentric position as herein set forth.

SIMEON BURGESS.

Witnesses:

ROLLIN CLARK,  
WM. H. LUDDEN.