D. B. COX.

Base Burning Coal Stove.

No. 51,649. Patented Dec. 19, 1865.

FIG. 2.

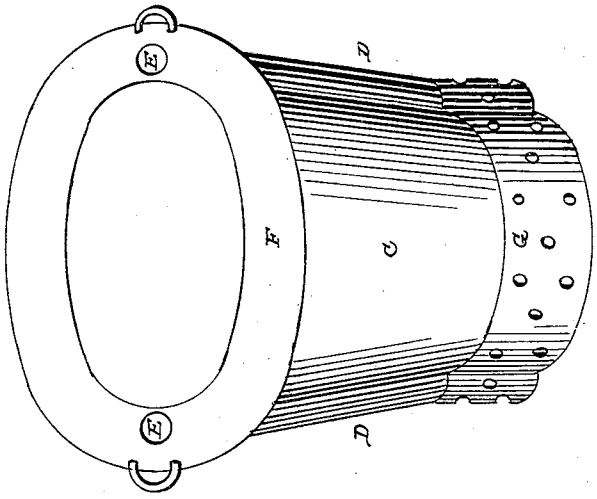


FIG. 3.

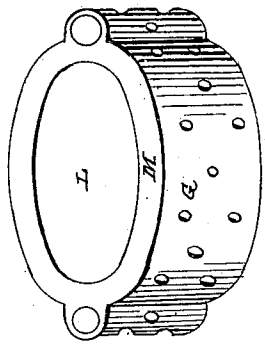
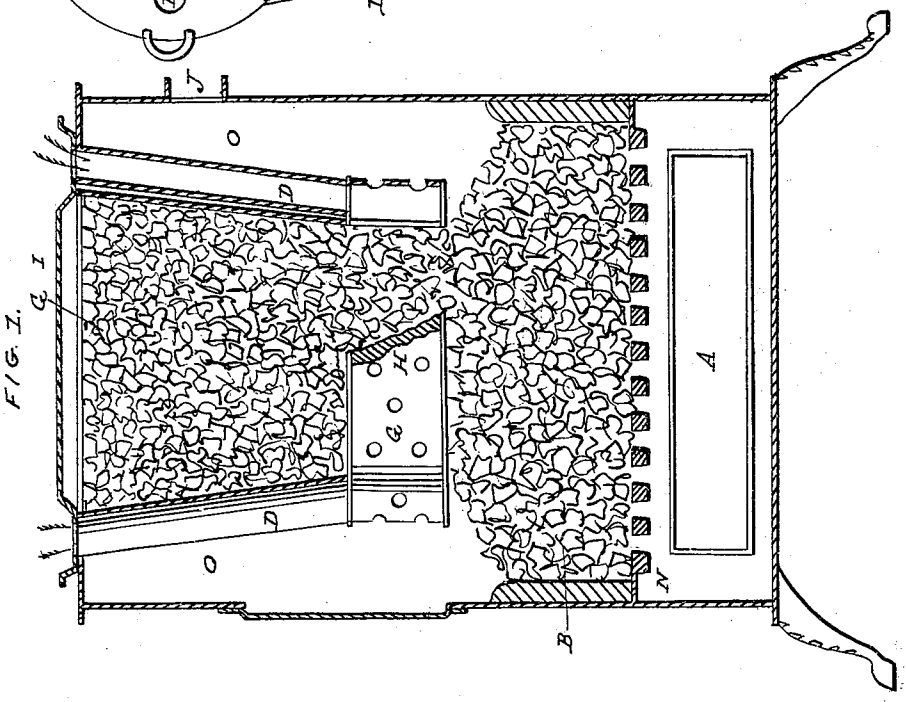


FIG. 1.



WITNESSES:

H. G. Sykes

R. B. Church

INVENTOR.

David B. Cox

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

DAVID B. COX, OF TROY, NEW YORK, ASSIGNOR TO COX, CHURCH & CO., OF SAME PLACE.

BASE-BURNING COAL-STOVE.

Specification forming part of Letters Patent No. **51,649**, dated December 19, 1865.

To all whom it may concern:

Be it known that I, DAVID B. COX, of the city of Troy, in the county of Rensselaer, in the State of New York, have invented a new and useful Improvement in Magazine Coal-Stoves; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference made thereon.

Figure 1 shows a vertical section of the stove, full charged with coal. Fig. 2 shows a perspective view of the removable magazine. Fig. 3 is perspective view of air-chamber, with magazine detached.

The space A is the ash-pit, above which is the grate N, and above that is the fire-box B, and suspended over the fire-box is the removable magazine or reservoir C, which contains the reserved coal, and from which it is supplied to the fire-box below as fast as the same is consumed by combustion in the fire-box B.

To prevent the reserved coal from igniting in its chamber the magazine is provided with the cover I, which is to be tightly fitted to its place after filling the magazine with coal.

Connected with the magazine, and with the upper ends open, are two tubes, D D, passing down on the outside of the magazine to the air-chamber G at the lower end of magazine.

The air-chamber G when made of cast-iron is constructed in two parts, and when put together leaves a cavity between (see H) which encircles the lower end of magazine, the outer portion of which is perforated, making a series of holes, more or less, so that fresh air is brought down through the tubes D D into said cavity or chamber, and is ushered through said perforations into the chamber O O for the purpose of igniting the inflammable gases evolving from the burning coals.

The magazine C, with the tubes D D and air-chamber G being so connected as to make a whole, is independent of the stove, and may be lifted out at pleasure and the stove used without the magazine, if and when desired.

What I claim, and desire to secure by Letters Patent, is—

1. The removable magazine C, in combination with the air-chamber G at its lower end, substantially as and for the purposes set forth.

2. The chamber G, with its perforations, in combination with the tubes D D or equivalents, substantially as set forth.

DAVID B. COX.

Witnesses:
H. G. GILES,
RICHARD B. CHURCH.