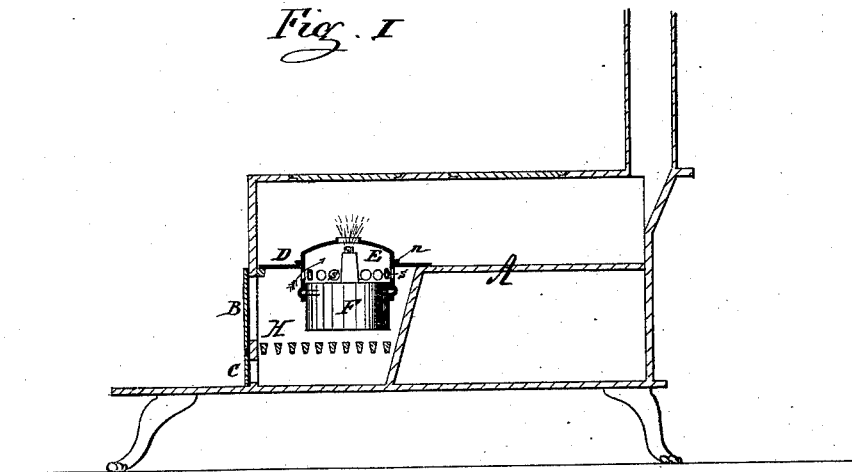


J. F. ALLEN.  
Cooking Stoves.

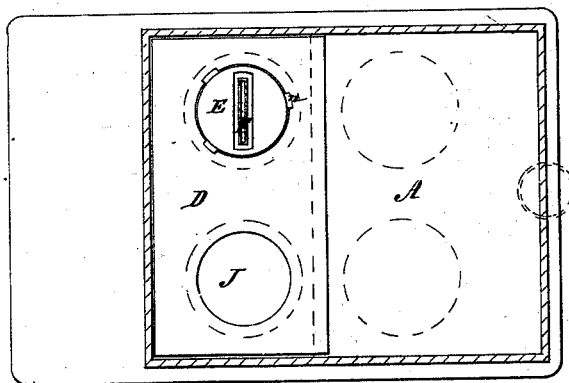
**No. 216,591.**

Patented June 17, 1879.

*Fig. I*



*Fig. II.*



*Witnesses.*

Georg Braun.  
Wm Chet.

*Inventor.*

John F. Allen  
per Henry E. Roeder  
Attorney.

# UNITED STATES PATENT OFFICE.

JOHN F. ALLEN, OF NEW YORK, N. Y.

## IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **216,591**, dated June 17, 1879; application filed November 27, 1878.

*To all whom it may concern:*

Be it known that I, JOHN F. ALLEN, of New York, in the State of New York, have invented a new and useful Improvement in Cooking-Stoves, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a longitudinal section of a stove with my improvement attached, and Fig. 2 is a top view of the same.

The object of my invention is to furnish a simple plan of producing the necessary heat in a cooking-stove by the application of an oil, spirit, or petroleum lamp or gas burner, whenever it is not desired to make a coal fire in the stove—as, for example, when only little heat is required to cook with—and when it is desirable to extinguish the fire quickly, as in warm weather.

In the drawings, A represents a cooking-stove, which may be of any known construction and internal arrangement as regards the flues. B is the fire-door, H the fire-place, and C the ash-pit and draft-door.

At or near the upper end of the fire-place H, where the flues begin, I arrange a diaphragm, D, which may be made of sheet-iron loosely fitting into this part of the fire-place, so as to shut the same off from the other parts of the stove. This diaphragm D is provided with holes J, one under each hole in the top plate of the stove, and which may be closed by a suitable cover, if only one should be required. Into these holes J caps E are fitted, having suitable projections *n* to rest upon the

diaphragm D to support the same. The lower part of this cap is arranged to receive a suitable lamp, F, and is provided with a number of openings, S, to allow the air to pass into the same above the lamp F to feed the flame. At the top of the cap the usual longitudinal opening for the flame is made.

This arrangement of a petroleum lamp or burner can readily be fitted to any stove or range, whenever only little fire is required for a short time, as in the summer, and is quite as easily removed whenever a larger or coal fire is required.

When the lamp is lighted the draft of air through the stove, which is admitted and can easily be regulated by the doors B and C, must pass nearly all through the openings S to the flame, increasing the density of the same, and at the same time carrying all smell and smoke usually produced by the burning of petroleum into the smoke-pipe.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with a cooking stove or range, the diaphragm D and lamp or burner F, fitted to a cap, E, provided with projections *n* and openings S, said diaphragm D fitting into or upon the fire-place of the stove or range, substantially in the manner and for the purpose described.

JOHN F. ALLEN.

Witnesses:

HENRY E. ROEDER,  
WILLIAM EHRET.