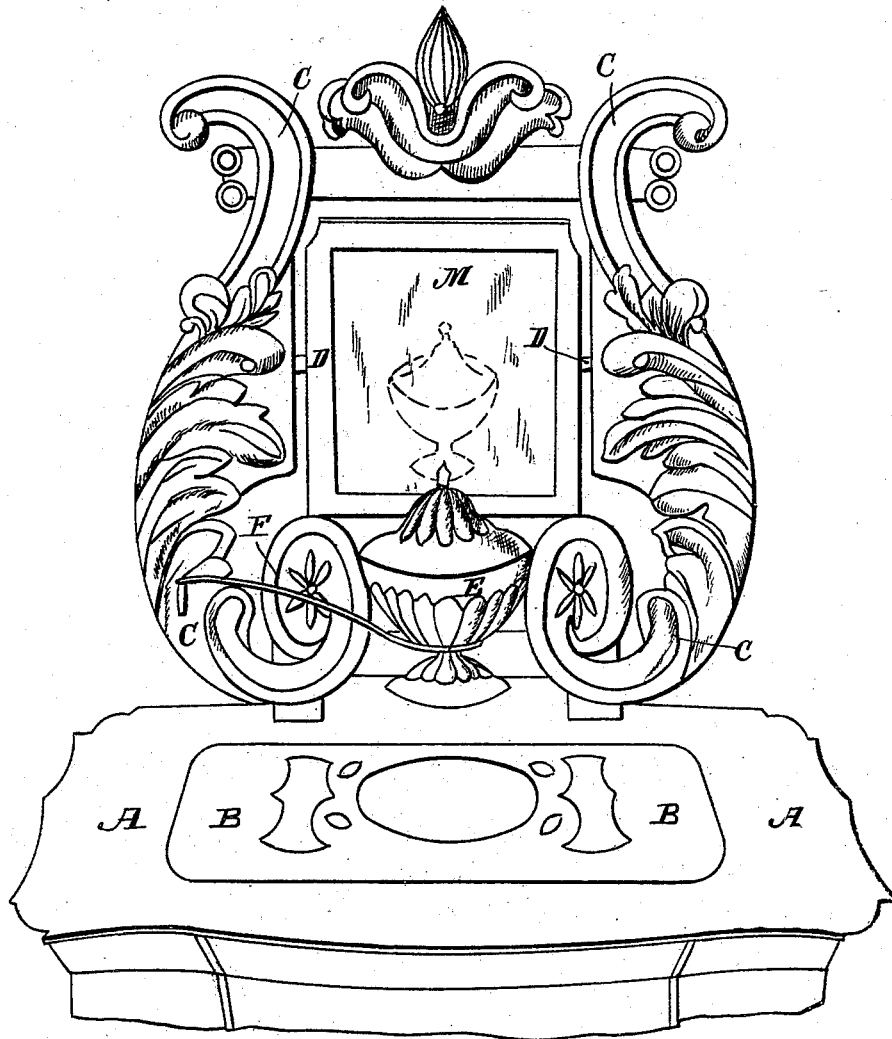


E. SMITH.  
Stove Light Reflector.

No. 7,914.

Patented Jan'y 28, 1851.



# UNITED STATES PATENT OFFICE.

ELIHU SMITH, OF ALBANY, NEW YORK.

## STOVE.

Specification of Letters Patent No. 7,914, dated January 28, 1851.

*To all whom it may concern:*

Be it known that I, ELIHU SMITH, of the city of Albany, and State of New York, have invented a new useful and ornamental apparatus for exhibiting and disseminating the light of stove-fires and for the arrangement of a water-evaporating vessel to operate in connection therewith, which I call "Smith's Stove-Light Reflector and Evaporator;" and I declare the following specification, with the drawings hereto annexed as part of the same, to be a full and complete description thereof.

A A represents the top plate of any stove. If it has the usual orifices for the insertion of cooking utensils, I fit a plate of metal B B to cover those orifices, having ornamentally shaped openings made therein, which are fitted with mica plates in order to permit the light of the fire to shine upward. If the top of the stove have not these orifices then it will become necessary to make a top plate therefor, with proper openings to be covered with mica. To the back edge of this top plate I attach an ornamental mirror-stand C, C, C, C, having suspended between its arms in a frame which turns upon horizontal pivots D, D, a mirror M; in the fashion of mirrorstand and frame, as they are ordinarily fitted to dressing-tables. This stand and frame are to be made of metal or mineral material, and of any ornamental fashion or pattern desirable; and to be either permanently attached to the top plate, or fixed in with mortises or sockets or clamps, or in any convenient way so as to be attached or removed at pleasure, and the mirror is to be made of glass, mineral or metal as may be desired.

The evaporator is a dish or vase E which is to be suspended over the top of the stove and near thereto, by means of a crane F which is hinged upon the frame or stand

C, C, as shown in the drawing, or may be attached by a pivot and socket to the top plate at any convenient point, the intention of this arrangement being to permit the removal of the evaporator from over the center of the stove, to one side, without the necessity of taking it away manually and setting it aside. The evaporating vessel may be of metal, or opaque mineral, but I prefer and propose to use glass vases, or dishes plain or colored with smooth or cut surfaces in order to reflect and refract the rays of the fire-light in a pleasing manner.

The mode of operation is that the rays of the fire-light passing upward through the mica plates set in the top of the stove, and being refracted through the evaporator, and the water therein, is reflected by means of the mirror, which is to be set at a suitable angle for that purpose, into the chamber, diffusing a pleasant light to illuminate the room, qualified by the transmission, through glass, and water, colored or plain. In case there be no evaporator, or it be of opaque material, the simple light of the fire will be so reflected; this will insure a clearer light than is usually produced from the lateral glass openings commonly used in stoves, as the light of the burning materials is less obstructed by ashes, clinkers, &c., on the top than at the sides of the fire.

What I claim as my invention and desire to secure by Letters Patent is—

The combination of a transparent water vessel, with mica-covered or other transparent openings in the top of a stove plate, and a mirror placed upon a stove top as herein represented and described.

ELIHU SMITH.

Witnesses:

RICH'D VARICK DE WITT,  
JAMES B. SANDERS.