

# UNITED STATES PATENT OFFICE.

EPHRAIM HOWE, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN BURNING-FLUIDS.

Specification forming part of Letters Patent No. 7,667, dated September 24, 1850.

*To all whom it may concern:*

Be it known that I, EPHRAIM HOWE, of Brooklyn, in the county of Kings and State of New York, have invented or discovered a new and improved compound or liquid from which carbonic gas may be made, as well as the same being new and useful for a burning-fluid; and I do hereby declare the following to be a full and exact description thereof, and have also furnished samples of the same to the Commissioner of Patents, this being a case where no drawings can be introduced.

The nature of my invention or discovery consists in compounding the flour of rosin and the essential oils obtained by distilling whisky or other liquors from grain or other vegetables, such essential oils being the residuum of whisky or other liquors after the same is distilled or rectified.

To enable others to make and use my invention or discovery, I will now describe the same.

I place in a suitable vessel a quantity of the essential oils of grain or any vegetable substance which contains alcoholic matter, the oils being the residuum of distilling or rectifying whisky or any such like liquors. I also provide rosin in a pulverized state, or rather the flour of rosin. I take in equal proportions of one pound of rosin and one pound of the before-named essential oils, more or less, and mix them together in any suitable vessel, preferring a tight or inclosed one. I then agitate by stirring or shaking, as may be convenient, from time to time. The oils have sufficient strength to completely dissolve the rosin, which by the agitation in a few hours becomes

thoroughly intermixed and liquid. If agitated frequently, from six to twenty-four hours will fully prepare the material for the retort. Gas for lighting buildings, &c., may be then made from this material in the usual way and by any of the well-known apparatus for generating such like gases. This fluid may also be burned in a lamp with a wick, in the same manner as camphene or other etherial oils.

I will here state that the great advantage of this discovery is the extreme cheapness of the materials, the essential oil herein referred to being at the present but little, if at all, applied to any profitable use, but merely considered as a refuse article. The employment of such a material with so cheap an article as rosin, although a very simple compound, seems to be a beneficial discovery.

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

The compounding rosin and the essential oil of vegetables or grain (when the same is produced by distillation of whisky or alcoholic liquors, and thereby become a refuse article) for the purpose of making a material from which to make gas, also for a burning-fluid, as set forth herein, whether compounded in the precise proportionate quantities set forth or other quantities which will produce substantially the same result, all of which is fully set forth herein.

EPHRAIM HOWE.

Witnesses:

ABRAM LONGBOTTOM,  
J. L. KINGSLEY.