

# United States Patent Office.

CHRISTIAN MUIR, OF LOCKHAVEN, PENNSYLVANIA.

*Letters Patent No. 99,934, dated February 15, 1870.*

## IMPROVED STOVE-LINING AND FIRE-BRICK.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern:*

Be it known that I, CHRISTIAN MUIR, of Lockhaven, in the county of Clinton, and State of Pennsylvania, have invented a new and useful "Adamantine Stove Fire-Brick," to supply stoves, furnaces and fire-places of every description or pattern, and to replenish old stoves, &c., with a cheaper and more durable fire-brick than any now in use.

The nature of my invention consists in furnishing a convenient and durable fire-brick for stoves of all patterns, furnaces, fire-boards, &c., and at the same time supply a material by which to replenish old stoves when the bricks have been burned out.

To enable others to make and use my invention, I will proceed to describe its ingredients, the manner of making it, and the method of adapting it to its intended use.

In order to make a given quantity of the material, I take one-fourth ( $\frac{1}{4}$ ) soapstone, one-fourth ( $\frac{1}{4}$ ) fire-clay, one-fourth ( $\frac{1}{4}$ ) common clay, and one-fourth ( $\frac{1}{4}$ ) common salt, or in such other proportions as will produce substantially the same result.

These several ingredients are mixed together, after which a sufficient quantity of water is added to form, upon mixing, a thick mortar or paste not unlike putty when mixed for use.

After the several ingredients are thoroughly mixed, the material while in this condition is applied with the hand and a common trowel to the inside of the stove, furnace, &c., in such quantities as may be necessary

to make a fire-brick of the proper or ordinary thickness.

The material is applied in the same manner in fitting up old stoves where all or a portion of the fire-brick has been burned out.

In this condition the stove should be left standing for twenty-four hours, to give a portion of the water time to evaporate, and the substance to become fixed or set.

A fire may then be built in the stove or furnace, as the case may be, without danger of the brick crumbling.

The brick is burned to the hardness of flint or adamant by the fire in the stove.

This invention furnishes a fire-brick which can be made by any person out of materials within the convenient reach of every one; it may be applied by a child or woman, and is manufactured of materials which make the compound much cheaper than any other brick now in use.

I claim as new and useful, and of my invention—

1. The manufacture or preparation of the compound which I denominate "adamantine stove fire-brick," of the ingredients and proportions and for the purposes set forth.

2. The application of my compound to all the purposes for which fire-bricks are used.

Witnesses:

CHRISTIAN MUIR.

H. T. HARVEY,  
T. J. HUDSON.