

UNITED STATES PATENT OFFICE.

DAVID GRAY STOKEY, OF DALLAS, TEXAS.

COMPOSITION OF MATTER FOR SAVING COAL DURING COMBUSTION.

SPECIFICATION forming part of Letters Patent No. 541,025, dated June 11, 1895.

Application filed October 30, 1894. Serial No. 527,467. (No specimens.)

To all whom it may concern:

Be it known that I, DAVID GRAY STOKEY, of Dallas, in the county of Dallas and State of Texas, have invented a new and Improved
5 Composition of Matter for Saving Coal during Combustion, of which the following is a full, clear, and exact description.

In the use of coal as a fuel, a considerable wastage results from the imperfect combustion of the vaporized carbon, that is thrown
10 off from the fuel as it is burned, and passes away through draft conduits to the open air.

The object of my invention is to provide a cheap and practical composition of ingredients, that when applied to the fuel in a stove
15 will intensify combustion, prevent clinkers forming in the fire chamber of the stove, aid to burn the smoke, and thus prevent the formation of soot, and by uniting with the volatilized products of combustion of the coal, insure
20 their more perfect combustion, and effect a marked saving of the coal used as fuel.

My improved composition of matter for saving fuel, consists of the following ingredients
25 combined in about the proportions stated.

Formula: Salt, two pounds; charcoal, (pulverized,) two and one-half ounces; saltpeter, one ounce; carbonate of zinc, one-half ounce; borax, (pulverized,) one-fourth ounce.

The above named ingredients are mixed 30 and dissolved in sufficient cold water to properly effect their blending together; and to apply the composition, a portion of the liquid matter is sprinkled on the coal before it is burned.

It is claimed for the above specified composition of matter, that it will when vaporized
35 by heat, assimilate with the carbon gas thrown off from the burning coal, and render it more inflammable, so that a more perfect combustion results, and the formation of soot is avoided.

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

The herein-described composition of matter
45 to be used with coal to perfect combustion and save fuel, consisting of water, salt, charcoal, saltpeter, carbonate of zinc, and borax, mixed and combined in about the proportions 50 specified.

DAVID GRAY STOKEY.

Witnesses:

HENRY ENGELSON,
F. C. HERNICHEL.