THOMAS HILLERY, OF SALEM, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND
MESNE ASSIGNMENTS, TO KOALE SAVA MANUFACTURING COMPANY, OF
BOSTON, MASSACHUSETTS, A CORPORATION OF WEST VIRGINIA.

COAL-SAVING COMPOSITION.

SPECIFICATION forming part of Letters Patent No. 688,782, dated December 10, 1901.
Application filed May 8, 1901. Serial No. 59,976. (No specimen.)

To all whom it may concern:

Be it known that I, THOMAS HILLERY, of Salem, in the county of Essex and State of
Massachusetts, have invented certain new and
useful Improvements in Coal-Saving Composition, of which the following is a specification.

This invention has for its object to provide a composition of matter adapted when mixed
with burning coal to increase the efficiency of the combustion and prevent or minimize the
formation of clinkers.

The invention consists in the improved composition hereinafter described and claimed.

In making said composition I mix the following ingredients in about the proportions
hereinafter specified: mineral salt of the kind
known as "coarse fine"—that is to say, re-
duced to smaller fragments than ordinary
rock salt and not powdered like table-salt—
two thousand pounds; copperas, one hundred
pounds; powdered charcoal, twenty-five
pounds; saltpeter, fifteen pounds, and bicar-
bonate of soda fifteen pounds.

This composition is used by sprinkling it
upon burning coal, about three pounds of the
composition being sufficient for one ton of
coal.

The composition increases the efficiency and
completeness of the combustion, this result
being due to the combination of the salt and
copperas with other ingredients. I find that
in most cases when the composition is used
the coal is reduced entirely to ashes, no clink-
ers being formed.

The copperas counteracts the corroding ef-
fect on the surfaces with which the products
of combustion come in contact, which effect
would otherwise result from the action of the
salt.

I claim—
The improved composition consisting of
mineral salt, copperas, charcoal, saltpeter, and
bicarbonate of soda.

In testimony whereof I have affixed my sig-
nature in presence of two witnesses.

THOMAS HILLERY.

Witnesses:

B. E. FROST,
C. F. BROWN.