

UNITED STATES PATENT OFFICE.

FREDERICK M. MAYBURY, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN COMPOUNDS FOR PREVENTING INCRUSTATION IN STEAM-BOILERS.

Specification forming part of Letters Patent No. **209,574**, dated November 5, 1878; application filed April 11, 1878.

To all whom it may concern:

Be it known that I, FREDERICK M. MAYBURY, of Milwaukee, in the county of Milwaukee, in the State of Wisconsin, have invented a new and useful Compound for Cleaning Steam-Boilers and Preventing Scale from Forming in the Same, which compound is fully described in the following specification.

This invention relates to that class of compounds used for cleaning the scale from steam-boilers, and for preventing the scale from forming in the same; and it consists in a composition formed by mixing chicken-dung water, leather, hair, soda, blood, salt, saltpeter, alum, ammonia, and tar together.

To prepare the compound for making about forty-two gallons of the same, take about ten gallons of chicken-dung, and put it in about thirty-five gallons of water and mix it thoroughly, and then strain it. Then put into the water, after the chicken-dung is strained out of it, about ninety pounds of leather, ten pounds of hair, and sixty pounds of soda, and boil the same in a vessel from twelve to fourteen hours, and then strain the same, and after straining add three gallons of blood, and

twenty-five pounds of salt, and one and a half pound of saltpeter, and boil again about an hour, and then strain again, and when cold add three-fourths of a pound alum, one and one-half pound ammonia, and one-fourth of a gallon of tar, and the compound is completed.

If the water used in the boiler is not very dirty or hard, the chicken-dung may be omitted, and for a larger or smaller quantity of the compound a larger or smaller quantity of the ingredients may be employed.

Use this compound as follows: For lake water, or any water of about that consistency, one quart for a ten-horse boiler, and in about that proportion for a larger or smaller boiler.

I claim—

A compound composed of chicken-dung water, leather, hair, soda, blood, salt, saltpeter, alum, ammonia, and tar, in about the proportions and prepared substantially as described.

FREDERICK M. MAYBURY.

Witnesses:

J. B. SMITH,
ROBT. S. GOODMAN.