

UNITED STATES PATENT OFFICE.

FREDERIC B. CAMORS, OF NEW ORLEANS, LOUISIANA.

METHOD OF REMOVING INCRUSTATIONS.

No. 887,062.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed February 13, 1908. Serial No. 415,770.

To all whom it may concern:

Be it known that I, FREDERIC B. CAMORS, citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Methods of Removing Incrustations from Water-Containers, of which the following is a specification.

My invention pertains to methods of removing incrustations from steam generators and other water containers; and it consists in the inexpensive method, hereinafter described and claimed, by the practice of which incrustations may be expeditiously and thoroughly removed from water containers of various kinds such as steam boilers, tanks, condensers, and steam and other heaters and the pipes and connections thereof.

In carrying out my method I introduce into the container to be cleared of incrustations a solution of pure or diluted hydrochloric acid and a solution of either sodium bisulfate or sodium aluminate.

Experiment has demonstrated the fact that excellent results may be obtained by using a diluted solution of hydrochloric acid at 10° Baumé and a solution of 8° Baumé of sodium bisulfate, in the proportion of two-thirds of the former in volume to one-third of the latter. These are introduced into the water container in quantities sufficient to effect the removal of the incrustations. Complete results may also be obtained under certain conditions by using a solution of hydrochloric acid at 4° Baumé combined with 3% of a solution of sodium aluminate at 10°

Baumé, heated to 70° centigrade, these constituents being also introduced into the container to be cleared in sufficient quantities to effect the removal of the incrustations.

The constituents may when deemed expedient be heated precedent to their introduction into the container, this with a view of effecting the removal of the incrustations more quickly than could be done by the use of cold ingredients. Or in the discretion of the party practicing my invention the said heating of the constituents may be effected subsequent to the introduction thereof into the container.

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

1. The method of removing incrustations from a water container consisting in introducing into the container in a suitable vehicle hydrochloric acid and sodium bisulfate in quantities sufficient to accomplish the purpose desired.

2. The method of removing incrustations from a water container consisting in introducing into it a solution of hydrochloric acid and a solution of sodium bisulfate in quantities sufficient to accomplish the purpose desired.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FREDERIC B. CAMORS.

Witnesses:

VICTOR CAMORS,
FEDLESS BREAIX.