

United States Patent Office.

M. M. JOHNSTON, OF NEW YORK, N. Y.

Letters Patent No. 71,307, dated November 26, 1867.

IMPROVEMENT IN ALLOYS FOR DENTISTS' USE.

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 M. M. JOHNSTON, of the city of New York, in the county of New York, and State of New York, have invented an "Improvement in Alloys for Dentists' Use," forming an alloy never before used for this purpose; and I do hereby declare that the following is a full and exact description thereof.

My invention consists in the addition of either metallic sodium or potassium, or an amalgam of either, to mercury, for the purpose of facilitating and causing the union of the mercury with the various metals, which, in combination, form amalgam or cement-filling used in dentistry for preserving teeth, such as silver, tin, cadmium, platina, &c.

To enable others skilled in the arts to make and use my invention, I will proceed to describe it more particularly.

I take ten pennyweights of pure mercury and add to this, say, one-quarter pennyweight of sodium or potassium, or an equal amount of amalgam of either. This compound or amalgam is now to be added to any alloy of silver, tin, cadmium, platina, &c., such as are commonly used for amalgam or cement-fillings, in the same manner as pure mercury would be used, and it will be readily seen that a union of the alloy and mercury will be much more readily and perfectly effected than by the use of mercury without the addition of sodium or potassium, or a compound of either.

I do not confine myself to the proportions of sodium or potassium and mercury above mentioned, but also claim the use of the same in any proportions which will accomplish the desired effect.

What I claim as my invention, and desire to secure by Letters Patent, is—

The use of sodium or potassium, or an alloy of either or both, for the purposes above mentioned, in the preparation of amalgam or cement for filling teeth.

M. M. JOHNSTON.

Witnesses:

EDWARD TIMPSON,
THOS. VEITCH.