

United States Patent Office.

ALFRED STARR AND WILLIAM M. WELLING, OF NEW YORK, N. Y., ASSIGNORS
TO WILLIAM M. WELLING.

Letters Patent No. 78,842, dated June 9, 1868; antedated June 2, 1868.

IMPROVED ARTIFICIAL IVORY.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, ALFRED STARR and WILLIAM M. WELLING, of the city and State of New York, have invented and made a certain new and useful Compound for an Artificial Ivory, especially adapted to the manufacture of plates for artificial teeth; and we do hereby declare the following to be a full, clear, and exact description of the same, and of its mode of preparation.

The ingredients employed by us are finely pulverized and thoroughly mixed together. They are heated in a suitable vessel and stirred, and then passed through rollers heated by steam, and moulded into shape while hot, by pressure between suitable dies, and the article itself can be turned, filed, sawed, or otherwise finished and polished according to the article to be produced.

The aforesaid manner of mixing and working the ingredients corresponds generally with that set forth in Letters Patent, granted August 4, 1857, to said WILLIAM M. WELLING.

The ingredients employed by us are used in about the following proportions:

Shellac, sixteen parts, by weight.

Gum-copal, one and a half part, by weight.

Gum-camphor, one part, by weight.

Talc, or amianthus, eight parts, by weight.

The talc may be used alone, or mixed with the amianthus, and can for some uses be employed to the extent of sixteen parts, with the other ingredients the same as before named.

This compound is very strong. It is not in any manner influenced by the saliva of the mouth, or by food or drinks taken into the mouth. It is light and durable, and although especially adapted to plates for artificial teeth, may be used for any purpose for which it is available.

Any desired coloring-matter may be introduced into this compound. For dental uses, carmine may be employed for the plates, and for filling teeth this compound may be mixed with impalpable white or other pigments.

What we claim, and desire to secure by Letters Patent, is—

The compound herein specified, prepared as set forth.

In witness whereof, we have hereunto set our signatures, this twelfth day of November, 1867.

ALFRED STARR,
WM. M. WELLING.

Witnesses:

CHAS. H. SMITH,
GEO. D. WALKER.