

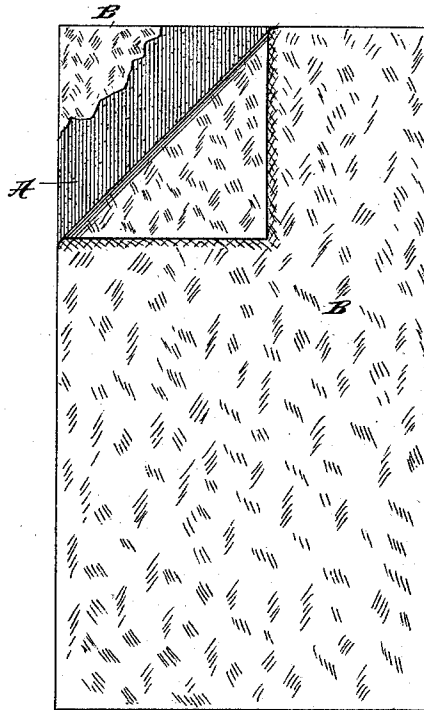
(No Model.)

A. S. RUTHERFORD.

METALLIC COVERED WAX FOR DENTAL OR OTHER PURPOSES.

No. 527,218.

Patented Oct. 9, 1894.



Attest:  
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# UNITED STATES PATENT OFFICE.

ADRIAN SPEAR RUTHERFORD, OF NEW YORK, N. Y.

## METALLIC-COVERED WAX FOR DENTAL OR OTHER PURPOSES.

SPECIFICATION forming part of Letters Patent No. 527,218, dated October 9, 1894.

Application filed July 30, 1891. Serial No. 401,150. (No model.)

*To all whom it may concern:*

Be it known that I, ADRIAN SPEAR RUTHERFORD, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Wax Products for Dental or other Purposes, of which the following is a specification.

My invention relates to wax preparations and its object is to devise an improved product useful for dental and other purposes.

The invention consists in a new article of manufacture comprising a layer of wax permanently provided with a coating of metallic foil.

The accompanying drawing shows a plan view of a sheet of wax A provided on both of its surfaces with metallic foil B one end of the foil being turned back and a portion of the wax broken away to more clearly indicate the separate elements of the product.

I find it practicable to combine with a sheet or layer of wax a coating of metallic foil—such as tin foil—by burnishing and heating for example, so that the foil will adhere permanently to the wax.

Dentists have heretofore burnished tin-foil to models and then pressed warm wax over the surfaces thus burnished. This operation requires some skill and consumes much time, and though great care might be exercised in doing the work the result was not always satisfactory, as the wax would often separate from the tin-foil. Experiments made with a view of overcoming this difficulty led up to the devising of my present invention.

The benefits and advantages of lining or covering the wax trial-plate in dentistry are many. It prevents the wax from sticking to the plaster cast and marring its surface, which is an important consideration, since a marred surface from any cause will affect the fit of the plate. It also insures a neat and clean appearance of the trial-plate.

The metallic foil coating or covering on the wax also prevents the hot spatula from melting the wax into the model. Furthermore, in setting teeth close to the gums the wax is required to be very thin, and if the covering

of foil were not present the knife or spatula would be liable to go too far and injure the cast.

By my invention I do away with the necessity of first lining the casts with tin and then separately pressing the wax upon the lined surfaces, a slow process attended with much annoyance. Furthermore, a much neater and smoother trial-plate may be produced by my foil-covered wax than is possible by the mode commonly practiced, and above explained. There is also a considerable saving of the time of the workman when operating with my product. My product may also be made use of for the cylinders of phonographs with obvious advantage.

My new article of manufacture is also useful in electroplating, avoiding the necessity of using plumbago, as the proper foil coating provides the requisite metallic surface to receive the deposit.

For some purposes the wax will be coated only on one side with metallic foil, while for other purposes both surfaces will be coated.

I do not confine myself to the use of tin-foil, as gold, aluminum, &c., will answer equally as well; but on account of its cheapness tin-foil will preferably be employed.

I do not contemplate the use of a metal base of sheet-iron or tin plate which would make a practically rigid tablet, as the purposes for which my invention is designed requires the completed article to be of such a nature as that when heated it will become sufficiently flexible to permit it to be pressed to conform to the cast or other surface to which it is to be applied. Nor does my invention consist in the employment of metallic foil as a surface upon which to register original phonograms to permit the latter to be transferred to duplicate cylinders. Nor does my invention include wafers composed of a substantially rigid metallic base covered or coated with a composition of rosin and wax.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A new article of manufacture adapted for the uses herein described, consisting of a

layer of wax permanently provided with a coating of metallic foil, substantially as set forth.

5 2. A new article of manufacture adapted for the uses herein described, consisting of a layer of wax permanently provided with a coating of metallic foil on both of its surfaces, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 27th day of July, A. D. 1891.

ADRIAN SPEAR RUTHERFORD.

Witnesses:

J. E. M. BOWEN,  
HUGO KOELKER.