

UNITED STATES PATENT OFFICE.

WILLIAM F. BOND, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED ARTIFICIAL RUBBER.

Specification forming part of Letters Patent No. 57,468, dated August 28, 1866.

To all whom it may concern:

Be it known that I, WILLIAM F. BOND, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Composition for Artificial Rubber; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same.

This invention relates to a composition which possesses all the properties of hard vulcanized rubber, and is adapted to all the purposes for which that article is used, such as the manufacture of combs, buttons, &c.

My composition consists of borax, shellac, glue, flour, linseed-oil, and molasses, to which may be added emery or other similar material, according to the articles to be produced. These ingredients are mixed together in various proportions, according to the requisite degree of hardness or elasticity.

In order to dissolve the shellac I make a concentrated solution of borax, and when the shellac is dissolved I add the glue, which may be previously soaked in water, and then the molasses and the other ingredients in the proper proportion. By a gentle heat the formation of the mixture is facilitated. From this composition I prepare buttons, combs, handles for knives and forks, and all such arti-

cles generally made of hard rubber or vulcanite.

By mixing with my compound a suitable quantity of emery I can prepare wheels or other tools for grinding metals or glass, tools, cutlery, and for polishing various articles.

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

1. A compound made of shellac, glue, and borax, substantially as and for the purpose described.

2. A compound made of glue, shellac, borax, and flour, substantially as and for the purpose set forth.

3. A compound made of glue, shellac, borax, flour, and linseed-oil, substantially as and for the purpose described.

4. A compound made of glue, shellac, borax, and molasses, substantially as and for the purpose set forth.

5. A compound made of glue, shellac, borax, molasses, flour, and linseed-oil, substantially as and for the purpose described.

6. A compound made of glue, shellac, borax, molasses, flour, linseed-oil, and emery, substantially as and for the purpose set forth.

W. F. BOND.

Witnesses:

S. C. STINE,
ALEX. BOND.