

525,086

# UNITED STATES PATENT OFFICE.

JOSEF PATTIGLER, OF VIENNA, AUSTRIA-HUNGARY, ASSIGNOR TO ALFRED RITTER VON PISCHIOF, OF SAME PLACE.

## ELASTIC OR PLASTIC COMPOSITION.

SPECIFICATION forming part of Letters Patent No. 525,086, dated August 28, 1894.

Application filed March 15, 1894. Serial No. 503,780. (No specimens.)

*To all whom it may concern:*

Be it known that I, JOSEF PATTIGLER, a subject of the Emperor of Austria-Hungary, residing at Vienna, Austria-Hungary, have invented certain new and useful Improvements in Elastic or Plastic Compositions, of which the following is a specification.

My invention relates to the manufacture of a compound having somewhat the properties and applications of india rubber or analogous substitutes and adapted for various technical purposes in the arts.

The principal object of my invention is to provide a simple, inexpensive, durable and efficient compound partaking somewhat of the nature of india rubber.

My invention consists of a composition consisting of the ingredients compounded in substantially the manner hereinafter described and claimed.

The nature, objects and general scope of my invention will be more fully understood from the following description, pointing out one preferred method of compounding the article, which in practice has been found efficient.

A charge of linseed oil is placed in preferably a steam heated kettle or the like and boiled until bubbles thereof are formed therein, when there is added successively thereto five parts of white zinc, two parts of soluble glass, which is silicate of potash and soda, with the alkali predominating, one-fifth part of minium (red lead) and one and one-half to two parts of asbestos in powdered or other form. These materials are added separately to the oil while the latter is in a state of ebullition. It may, however, be here remarked that the above ingredients as to quantity may be varied at pleasure and equally good results be obtained. Moreover, that during the introduction of each to the oil, the same should be thoroughly stirred or agitated, in order to permit of an intimate admixture or combination thereof with the oil, before adding the other materials hereinafter mentioned to the mass.

After the thorough admixture of the several materials to the more or less liquid mass caoutchouc or the like with a one half ( $\frac{1}{2}$ ) part of benzine is added thereto, in order to produce

a resultant thick or consistent composition. If the mass should be found to be too thick, the same may be thinned by the addition of a prescribed quantity of linseed oil, glycerine, paraffin or other vegetable or mineral oil, and during the introduction of the same, the combined mass should be thoroughly stirred and at the same time heated to insure a more perfect mixture thereof. To the compound in some cases is then added suitable coloring matter and after thorough admixture therewith, the same may be poured into a mold or under pressure caused to assume the desired form in a mold, for subsequent use when withdrawn therefrom.

It may be here remarked that the above named compound is especially adapted for molding casts, terra cotta and stucco work, busts and for other technical purposes; and moreover, that the same is water-proof and non-inflammable, and while readily carbonizing yet in the presence of an intense heat or flame such will have no effect upon the same.

It will be manifestly obvious to those skilled in the art to which my invention appertains that the proportion of the respective ingredients entering into the manufacture of the compound hereinbefore described may be varied without departing from the spirit of my invention, and hence I do not wish to be understood as limiting myself to the precise proportions mentioned.

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

1. A composition, consisting of an oil, caoutchouc, zinc-white, soluble glass, minium and asbestos, substantially as and for the purpose set forth.

2. A composition, consisting of vegetable or mineral oil, caoutchouc, zinc-white, soluble glass, minium, asbestos and coloring matter, substantially as and for the purposes set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOSEF PATTIGLER.

Witnesses:

WENZEL RUDOLF SINKE,  
Engineer.

H. BELMONT.