

# UNITED STATES PATENT OFFICE.

CONSTANTIN FAHLBERG, OF NEW YORK, N. Y.

## MEDICATED BENZOIC SULPHINIDE COMPOUND.

SPECIFICATION forming part of Letters Patent No. 343,803, dated June 15, 1886.

Application filed September 26, 1885. Serial No. 178,284. (Specimens.)

*To all whom it may concern:*

Be it known that I, CONSTANTIN FAHLBERG, of the city, county, and State of New York, have invented certain new and useful Improvements in Medicated Compounds, of which the following is a specification.

This invention relates to an improved medicated compound in the production of which the compound is employed for which Letters Patent were granted to me, No. 319,082, dated June 2, 1885, and to which the chemical name of "benzoic sulphinide" has been given, the invention being more especially designed to prepare salts of benzoic sulphinide with quinine, cinchonine, chinidine, cinchonidine, morphine, and other organic alkaloids, and to neutralize thereby the disagreeable bitter taste of the same, so that said alkaloids can be taken directly without any special vehicle, such as wafers, gelatine capsules, and the like.

The invention consists of a medicated compound formed of a combination of benzoic sulphinide with an organic alkaloid by first neutralizing said alkaloid with benzoic sulphinide in an aqueous or alcoholic solution, and then crystallizing the resulting salt from the same.

I have discovered by a series of tests that benzoic sulphinide enters into a chemical combination with organic alkaloids and forms salt-like compounds with the same in the same manner as it forms a chemical combination with the alkalies, alkaline earths, and metals, as stated in my prior patent referred to. Any organic alkaloid may be united with benzoic sulphinide, provided it shows the ordinary alkaline reaction of pure alkaloids.

In preparing salts of the alkaloids with benzoic sulphinide, the alkaloid is first neutralized by benzoic sulphinide, either in an aqueous or alcoholic solution, until blue litmus-paper is not changed, upon which the salt of the alkaloid is obtained by crystallization or evaporation

of the liquid. A neutral salt of benzoic sulphinide and the organic alkaloid is thereby formed, in which the bitter taste of the alkaloid is almost entirely neutralized by the sweet taste of the benzoic sulphinide. Should it be desired to prepare salts of still sweeter taste, the neutral salts are changed to salts of an acid character by adding an additional quantity of benzoic sulphinide, which is of special advantage in the case of the alkaloids having a greater degree of bitterness, as in the case of quinine and the alkaloids of the different species of cinchona, which may thereby be more advantageously dispensed in pharmacy.

The effect of the compound formed of benzoic sulphinide and an organic alkaloid upon the human system has been found to be just as effective as those of the sulphates and hydrochlorides of said alkaloids.

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

1. A medicated compound consisting of benzoic sulphinide and an organic alkaloid, substantially as described.

2. A medicated compound consisting of benzoic sulphinide and quinine, substantially as described.

3. The method herein described of making a medicated compound from benzoic sulphinide and an organic alkaloid, which consists in dissolving said benzoic sulphinide and the alkaloid in alcohol or water, and then crystallizing the resulting salt from the solution, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

CONSTANTIN FAHLBERG.

Witnesses:

PAUL GOEPEL,  
SIDNEY MANN.