UNITED STATES PATENT OFFICE.

FELIX FREIHERR VON OEFELE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO HEINRICH SCHWEITZER, OF NEW YORK, N. Y.

ALLOY OF VANADIUM AND PRECIOUS METALS.

1,107,180. Specification of Letters Patent. Patented Aug. 11, 1914.

No Drawing. Application filed October 11, 1911. Serial No. 654,005.

To all whom it may concern:

Be it known that I, FELIX FREIHERR VON OEFELE, a subject of the King of Bavaria, and resident of New York, in the county and State of New York, have invented a certain new and useful Alloy of Vanadium and Precious Metals, of which the following is a full, clear, and exact description.

This invention relates to alloys of vanadium especially to that class in which the vanadium enters into combination with precious metals as for instance gold, platinum, etc.

A further object of the invention is the process for the production of aforesaid alloys.

Heretofore alloys of iron, aluminum, copper and nickel with vanadium have become known and were used for various purposes in the trade. Alloys or mechanical combinations of vanadium and gold have heretofore never been made nor have they been described in any publication.

The alloy resulting from the process according to the present invention is much harder than any alloy of precious metals at present on the market and is therefore very well adapted for the use of dentists, etc., especially for coining purposes. Coins made of such an alloy are very well adapted to stand the wear to which gold coins for instance are daily subjected. They do not lose any of their value during their circulation and thus a considerable saving for the respective Governments is assured which is of the highest importance, especially in countries where gold coins are the chief means of exchange.

I include into my invention alloys of gold-alloys of any description with vanadium, alloys of vanadium-alloys of any description with gold, and also alloys of gold-alloys of any description with vanadium-alloys of any description.

Vanadium alloys especially considered in my invention are composed of vanadium with precious metals such as gold, platinum, etc., and common metals such as iron, aluminum, copper or nickel.

It is understood that changes may be made in the proportions of the ingredients forming the vanadium and gold alloys as described and laid down in the appended claims without deviating from the spirit and scope of my invention and therefore I do not wish to be limited to the particular materials hereinbefore described.

Having thus described my invention what I claim is:

1. As a new article an alloy of gold with a vanadium alloy.

2. As a new article an alloy of gold-vanadium with other metals.

3. As a new article an alloy of a gold combination with a vanadium alloy.

In testimony whereof I affix my signature in presence of two witnesses.

FELIX FREIHERR VON OEFELE, M. D

Witnesses:
GEO. C. HEINICKE,
M. SACHS.