

UNITED STATES PATENT OFFICE.

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VANADIUM-GOLD ALLOY.

1,107,181.

Specification of Letters Patent.

Patented Aug. 11, 1914.

No Drawing. Original application filed October 11, 1911, Serial No. 654,005. Divided and this application filed October 22, 1912. Serial No. 727,169.

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 new and useful Vanadium-Gold Alloy, of which the following is a specification.

I have described and claimed in my co-pending application for patent Ser. No. 654,005 filed Oct. 11, 1911 as a new and useful article alloys of vanadium alloys with gold. Aside of the ordinary way of producing such alloys by melting the metallic constituents there are other ways of obtaining a metallic regulus of a gold vanadium alloy.

In my present application, being a division of my previous application No. 654,005 filed Oct. 11, 1911, I describe a method of producing vanadium gold alloys from vanadium compounds and gold preparations by using a chemical reducing agent as for example carbon and while I do not claim such method I consider the resulting alloy as the main object of my invention.

The process is as follows: Chemical compounds of vanadium such as of vanadium

and oxygen, vanadium and sulfur, or vanadium and chlorin are mixed with a gold preparation of either chemical or physical character both parts preferably in finest subdivision, a chemical reducing agent for example carbon is added and the whole subjected to heat. The regulus obtained from the chemical constituents represents a gold vanadium alloy which is obtained by a chemical reduction, taking place before and at the time of the alloy formation. The alloys produced by my said process possess very favorable properties in regard to strength and wear, and the described process affords the preparation of gold vanadium alloys with or without the presence of other metals according to the number and chemical relation of the mixed ingredients.

Having now fully described my invention I claim:

As a new article an alloy of vanadium with gold.

FELIX VON OEFELE, M. D.

Witnesses:

HEINRICH SCHWEITZER,
WM. W. KNABE.