

UNITED STATES PATENT OFFICE.

RICHARD BEAUCHAMP WHEATLEY, OF LONDON, ENGLAND.

ALLOY.

SPECIFICATION forming part of Letters Patent No. 685,891, dated November 5, 1901.

Application filed April 29, 1901. Serial No. 58,063. (No specimens.)

To all whom it may concern:

Be it known that I, RICHARD BEAUCHAMP WHEATLEY, engineer, residing at No. 115 Hungerford road, London, England, have invented a certain new and useful Improvement in the Manufacture of Metallic Alloys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to the production of metallic alloys; and its object is to produce an alloy having an appearance closely resembling that of gold.

In carrying my invention into effect I first make an alloy which I call the "base metal" or "base alloy," to which I add varying proportions of additional alloys. The base metal I form as follows: copper, sixty-six parts, by weight; zinc, fifty parts, by weight. To this base metal I add alloys of other metals to form a perfectly homogeneous and fine-colored alloy. These metallic alloys I number 1, 2, 3, and 4.

No. 1 alloy is formed by melting eighty parts, by weight, copper; twenty parts, by weight, manganese.

No. 2 alloy is formed by melting fifty parts, by weight, nickel; ten parts, by weight, tin; forty parts, by weight, copper.

No. 3 alloy is formed by melting eighty parts, by weight, copper; twenty parts, by weight, aluminium.

No. 4 alloy is formed by melting fifty parts, by weight, tungsten; fifty parts, by weight, iron.

As an example of proportions I take one hundred and sixteen parts of base metal—viz., copper and zinc of No. 1 alloy, five parts; No. 2 alloy, two parts; No. 3 alloy, twenty parts; No. 4 alloy, four parts.

I claim—

An alloy consisting of one hundred and sixteen parts of a base alloy composed of sixty-six parts copper and fifty parts zinc, five parts of an additional alloy (No. 1) composed of eighty parts copper and twenty parts manganese, two parts of an additional alloy (No. 2) composed of fifty parts nickel, ten parts tin and forty parts copper, twenty parts of an additional alloy (No. 3) composed of eighty parts copper and twenty parts aluminium, and four parts of an additional alloy (No. 4) composed of fifty parts tungsten and fifty parts iron.

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

RICHARD BEAUCHAMP WHEATLEY.

Witnesses:

ROBT. A. BLAKE,
WALTER J. SKERTEN.