

# UNITED STATES PATENT OFFICE.

GEORGE WELTDEN GESNER, OF BROOKLYN, NEW YORK.

## ALLOY.

**SPECIFICATION** forming part of **Letters Patent No. 692,198**, dated January 28, 1902.

Application filed May 4, 1901. Serial No. 58,831. (No specimens.)

*To all whom it may concern:*

Be it known that I, GEORGE WELTDEN GESNER, a citizen of the United States, and a resident of the borough of Brooklyn, in the city and State of New York, have invented a new and useful Alloy—namely, an Alloy of Iron, Hydrogen, and Copper—of which the following is a specification.

This alloy is based upon Letters Patent of the United States No. 604,580, dated May 24, 1898, and No. 642,320, dated January 30, 1900, and No. 640,775, dated March 26, 1901. These Letters Patent relate to the commercial manner of making and manipulating an alloy of iron and hydrogen and mention its valuable qualities. In alloying this combination of iron and hydrogen with copper I fuse it with the latter in proportions relative to the degree of strength and hardness desired for different

purposes. To obtain about the strength and hardness of cast-iron, I use 79.89 parts iron, .11 parts hydrogen, and twenty parts copper. In some cases I add tin in proportions similarly determined, beginning at two per cent.

The qualities of the said alloy are very high resisting power to oxidation by the atmosphere, moisture, brine, &c., and toughness, strength, and hardness.

I claim as my invention—

An alloy consisting of iron, hydrogen and copper.

In testimony that I claim the invention as above set forth I affix my signature in the presence of two witnesses.

GEORGE WELTDEN GESNER.

Witnesses:

K. L. PAYTON,  
HOWARD FLORANCE.