

# UNITED STATES PATENT OFFICE.

JACOB S. WOLFE AND LOUIS K. ENGLERT, OF WEST CATASAUQUA,  
PENNSYLVANIA.

## ALLOY.

SPECIFICATION forming part of Letters Patent No. 694,224, dated February 25, 1902.

Application filed June 3, 1901. Serial No. 63,020. (No specimens.)

*To all whom it may concern:*

Be it known that we, JACOB S. WOLFE and LOUIS K. ENGLERT, citizens of the United States, residing at West Catasauqua, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Composite Metals; and we do 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.

The invention relates to composite metal resulting from the admixture of copper, tin, iron, and salt.

The object of the invention is to produce a metal which may be used for all general purposes—such as for the manufacture of sharp and blunt tools, armor-plate, bridge structure, or, in fact, any place where a strong, tough, durable material is desired and which will not corrode.

The composition consists, by weight, of copper, eighty-five parts; tin, four parts; iron, six parts; salt, five parts. Copper thus alloyed will be found to possess the desired

toughness, strength, and durability to enable it to be used in most all of the arts where steel and iron has heretofore been employed and will at the same time be rust-proof, thus enhancing its value for outdoor use or for use in damp places or localities.

What we claim is—

1. A composite metal resulting from fusing the following elements in approximately the following proportions by weight: copper eighty-five parts, tin four parts, iron six parts, and salt five parts.

2. The process for producing a composite metal consisting in fusing the following elements in approximately the following proportions by weight: copper eighty-five parts, tin four parts, iron six parts, and salt five parts.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

JACOB S. WOLFE.  
LOUIS K. ENGLERT.

Witnesses:

THEO J. GEIGER,  
WM. SACKS.