



A. B. COOK, OF MANCHESTER, TENNESSEE, ASSIGNOR TO WILLIAM S. HUGGINS, OF SAME PLACE.

*Letters Patent No. 90,729, dated June 1, 1869.*

**IMPROVED ANTI-FRICTION METAL.**

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, A. B. COOK, of Manchester, in the county of Coffee, and State of Tennessee, have invented a new and improved Anti-Friction Metal; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

This invention relates to a new metal to be used in journals, bearings, and boxes of all kinds, and has for its object to be more inexpensive and more effective than any other metal or metallic compound now in use.

The invention consists in mixing zinc, copper, block-tin, and antimony with each other in about the following proportions and substantially in the following manner:

Forty-five parts of zinc;  
Three parts of copper;  
One part of block-tin; and  
One part of antimony.

The copper is first melted; then the block-tin, next the antimony, and finally the zinc, are added. Care should be taken not to overheat the metal. For this purpose I propose to cover the metal, while it is being heated, with a coat of pulverized charcoal.

This compound will last much longer, be cheaper, and produce less friction than any other anti-friction metal heretofore used.

Having thus described my invention,  
I claim as new, and desire to secure by Letters Patent—

The metallic composition herein described, to be used as an anti-friction bearing for shafts, &c., as specified.

The above specification of my invention signed by me, this 27th day of November, 1868.

A. B. COOK.

Witnesses:

DANIEL McLEAN,  
WILLIS BLANTORS.