UNITED STATES PATENT OFFICE.

GEORGE SHERMAN, OF MEMPHIS, TENNESSEE.

METALLIC ALLOY FOR JOURNAL BEARINGS AND BOXES.

Specification forming part of Letters Patent No. **29,525**, dated August 7, 1860.

To all whom it may concern:

Be it known that I, GEORGE SHERMAN, of Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Metallic Alloy for Boxes and Bearings, of which the following is a specification.

To enable others to compound and manufacture it, I have described it with sufficient clearness to enable competent and skillful workmen in the art to which it pertains or is most nearly allied to manufacture and use said invention.

The component parts of said metallic alloy are one and a half pound of tin, one and a half pound regulus of antimony, and fourteen pounds of lead, mixed in the following manner: The lead is melted in a crucible to a red heat. The regulus of antimony is then added. The crucible is then taken from the fire and the composition stirred until it has attained a very light yellow or very nearly a white color. When it has attained this color then add the tin. Then stir the whole until it becomes white. It is then ready to pour into suitable vessels to cool. This composition is then ready to cast into bearings, boxes, or any shapes desirable.

When melting this alloy or composition preparatory to molding it into boxes or bearings, it should be heated until it becomes white and then poured into the molds. Care should be taken and not let it get too hot, or in pouring it will shrink and the castings become porous. It will only make a good, tough, solid casting when poured at the described color. The least deviation will result in a bad box or bearing, as the case may be.

What I claim, then, and desire to secure by Letters Patent, is—

An alloy of the aforesaid metallic materials made in the manner and proportions set forth.

GEORGE SHERMAN.

Witnesses:

T. VADEN,

S. B. EDMONSON,

H. C. SLAUGHTER.