

UNITED STATES PATENT OFFICE

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BEARING ALLOY

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1 Claim. (Cl. 75—134)

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This invention relates to bearing alloys of the kind which are adapted to be carried by a backing or shell of harder material such as steel.

It is known to use an alloy of lead and copper as a bearing metal and this bonds satisfactorily with a steel shell. It has been found that the distribution of lead in these alloys can be maintained uniform by the addition of small quantities of tin, nickel or silver. In the production of copper-lead bearings advantage is taken of this fact. It is also known that pure silver will bond with a steel shell and that the addition of even small quantities of lead to the silver destroys the bonding properties of the silver. All quantities are given by weight in this specification.

It is an object of the present invention to produce a bearing metal in which silver is introduced in such quantities as to form a major constituent of the metal and in which the bonding properties of the alloy are not spoilt by the presence of lead and silver as alloying agents.

It is a further object of the present invention to introduce into a lead-copper bearing metal alloying constituents which will reduce the ductility of the metal and increase its resistance to

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corrosion of the lead phase by acids in the oil lubricating the bearing.

According to the present invention, a bearing alloy of the kind set forth contains lead, silver and copper in equal proportions. Such an alloy is found to possess strong bonding characteristics with the backing material.

We claim:

A bearing alloy consisting of copper, silver and lead in equal proportions.

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REFERENCES CITED

The following references are of record in the file of this patent:

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