

UNITED STATES PATENT OFFICE

2,649,370

INDIUM-BISMUTH-LEAD ALLOY

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1 Claim. (Cl. 75—134)

1

This invention relates to alloys and more particularly it relates to low fusing point alloys.

It is an object of the invention to provide cadmium-free low melting point alloys.

In accordance with the invention alloys are provided comprising 51-53% Bi, 21-23% In, 25-27% Pb and have fusing points of approximately 70° C.

It will be observed from the compositions that these alloys do not contain cadmium and accordingly they are suitable for certain applications as heat transfer media particularly in such applications where cadmium would be detrimental.

What is claimed is:

Low melting point alloys composed of 51-53% Bi, 21-23% In and 25-27% Pb.

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References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
1,878,686	Ellis	Sept. 20, 1932

2

Number	Name	Date
2,218,153	Pray	Oct. 5, 1940
2,464,821	Ludwick et al.	Mar. 22, 1949

OTHER REFERENCES

Bureau of Standards Circular No. 382, April 2, 1930; pages 8 and 10; published by U. S. Government Printing Office.

Campbell's "List of Alloys," 1930; page 52; published by American Society for Testing Materials, Philadelphia, Pa.

French, Industrial and Engineering Chemistry, vol. 27, December 1935; pages 1464 and 1465.

French, Metal Industry (N. Y.), 1937, pages 106 and 107.

Smith, Metal Industry (London), October 26, 1945; page 262.

American Society for Metals, Cleveland, Ohio, Metals Handbook, 1948 ed.; pages 744 and 745.