

[54] **DUAL INSULATED MAGNET WIRE**
 [75] Inventors: **George D. Hilker; Charles E. Doehrman; Verne H. Lausen; Harold P. Mowery; Mike T. Sutton,** all of Fort Wayne, Ind.

3,621,119 11/1971 Sugiyama 174/113 R
 3,676,814 7/1972 Trunzo 336/205

OTHER PUBLICATIONS

Dummer et. al. Wires & R. F. Cables, Pitman, London, 1968, p. 21 & 25.

[73] Assignee: **Phelps Dodge Industries, Inc.,** New York, N.Y.

Primary Examiner—E. A. Goldberg

[22] Filed: **May 17, 1973**

[57] **ABSTRACT**

[21] Appl. No.: **361,121**

A magnet wire having surprising characteristics comprising a base insulation of a strip of wire insulating material extending longitudinally of the conductor and being wrapped around the conductor, secured at the seam with an adhesive, and a top coat of resinous material superimposed on said base insulation. The magnet wire of this construction is able to (1) withstand temperatures for short times greatly in excess of the melting temperature of the seam adhesive without the base insulation unwrapping from the conductor, and (2) exhibit improved slip, abrasion resistance, moisture resistance, and electrical insulating characteristics.

[52] U.S. Cl. . **174/120 SR, 174/121 SR, 174/121 B, 336/205**

[51] Int. Cl. **H01b 7/02**

[58] Field of Search **174/121 R, 1 SR, 1 B, 120 SR, 174/120 FP, 113 R; 336/205**

[56] **References Cited**

UNITED STATES PATENTS

1,944,870	1/1934	Apple	336/205 X
3,239,598	3/1966	Olson	174/120 SR
3,412,354	11/1968	Sattler	336/205
3,528,852	9/1970	Olson	174/120 SR

9 Claims, 4 Drawing Figures

