

- [54] **SPLICE FOR ELECTRIC CABLES**
- [75] Inventors: **George Bahder**, Suffern; **Felipe G. Garcia**, New City, both of N.Y.
- [73] Assignee: **Phelps Dodge Industries, Inc.**, New York, N.Y.
- [22] Filed: **Mar. 22, 1972**
- [21] Appl. No.: **237,018**
- [52] U.S. Cl. .... **174/88 R, 174/76**
- [51] Int. Cl. .... **H02g 15/08**
- [58] Field of Search ..... **174/84 R, 88 R, 76; 156/48, 49; 29/628**

Primary Examiner—J. V. Truhe  
 Assistant Examiner—D. A. Tone  
 Attorney, Agent, or Firm—Cyrus S. Hapgood

[57] **ABSTRACT**

The central conductors of aligned cables are provided with a mechanical and electrical interconnection at their opposing end portions where their respective insulating layers are cut back to expose these end portions. An insulating sleeve is applied in surrounding relation to the adjacent end portions of the cable to form a chamber extending around said interconnection and the respective cut-back insulating layers, the chamber being closed except for an inlet and an outlet. A filling material having a high dielectric constant is injected through said inlet while expelling air through said outlet until the chamber is substantially filled with the material, whereupon the outlet is closed and an additional amount of said material is forced through the inlet to place the chamber contents under superatmospheric pressure. The inlet is then closed to maintain the filling material under superatmospheric pressure in the chamber.

- [56] **References Cited**
- UNITED STATES PATENTS**
- 2,312,652 3/1943 Komives et al. .... 174/88 R X
- 2,463,231 3/1949 Wyatt ..... 174/84 R UX
- 3,141,060 7/1964 Norton ..... 174/88 X
- 3,145,421 8/1964 Colbert ..... 174/76 UX
- 3,356,788 12/1967 Callahan et al. .... 174/88 R UX

**8 Claims, 1 Drawing Figure**

