

Title (en)

Electrical crimp type termination for aluminium wire.

Title (de)

Elektrische Anschlussklemme zur Herstellung einer Pressverbindung für Aluminiumdraht.

Title (fr)

Borne électrique du type à sertissage pour fil en aluminium.

Publication

EP 0018863 A1 19801112 (EN)

Application

EP 80400425 A 19800331

Priority

US 3661679 A 19790507

Abstract (en)

Electrical crimp type termination for aluminium wire which includes interposed between the inside surface of a relatively hard electrically conductive crimp barrel (12b) and the outside surface of the aluminium wire (15) a sleeve (14) made of a relatively soft electrically conductive material and having a bore coated with a thin hard brittle layer (18), the coated bore being adapted to fit over the aluminium wire (15) and the outside surface of the sleeve (14) being adapted to fit into the crimp barrel (12b), so that crimping the crimp barrel (12b) causes the sleeve (14) to be crimped with the material of the crimp barrel (12b) and the aluminium wire (15), thereby forming a strong reliable electrical joint by breaking the coated layer (18) into many sharp particles to bite through and abrade the oxide surface of the aluminium wire (15) to bring clean aluminium into intimate electrical contact with clean sleeve material and by additionally bringing the relatively hard barrel material into intimate electrical contact with the relatively soft sleeve material.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- US 2815497 A 19571203 - REDSLOB JEAN J
- PRODUCT ENGINEERING, Vol. 45, Nr. 12, December 1974 New York (US) F. YEAPLE: "New designs for aluminium motors include fool-proof connectors", pages 19-22. * Page 21, first half; figures *

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