

Title (en)

Electric conductor, its manufacturing and mounting

Title (de)

Elektrischer Leiter, Herstellung und Aufbau

Title (fr)

Conducteur électrique, sa fabrication et son assemblage

Publication

EP 2159803 A1 20100303 (EN)

Application

EP 08014955 A 20080824

Priority

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Abstract (en)

The invention relates to the electric conductors of air-lines for electricity transmission, which contains a wires from a strong material, for example from steel, on which are wound wires from a material with good electric characteristics, for example from aluminium. In order to increase the tensile strength of conductor, the length of aluminium wires exceeds the length of the steel wires, and ratio of the length of the aluminium wires and the length of the steel wires equals the value, for which the manufacturing of the lines is optimal, aluminium wires have deformation of compression, And steel wires have deformation of stretching, therefore it is possible to increase interval between towers of a line, the costs of the lines can be reduced and the safety and the reliability can be improved by the replacement of conductors of old lines by new ones. Finally the inconveniences for the environment caused by towers of the lines are reduced by the invention.

IPC 8 full level

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Citation (search report)

- [X] US 1173190 A 19160229 - HOOPES WILLIAM [US]
- [X] US 3676578 A 19720711 - CAHILL TERENCE

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