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## (54) Coil type high-voltage resistive cable for preventing noise

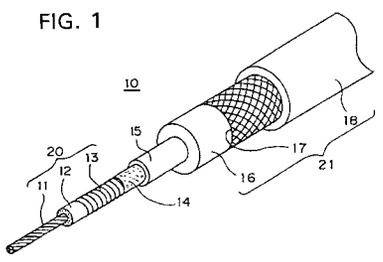
(57) [Object]

To improve the dielectric strength and prevent a reduction in the noise preventing performance in a thin coil type high-voltage resistive cable having an outer diameter of 5 mm.

[Construction]

A rubber layer (12) is formed around the outer circumferential surface of a core (11) made of reinforced fibers by applying a coating material obtained by mixing fluororubber and ferrite powder. A resistance wire (13) is wound around an outer circumferential surface of the rubber layer (12) in an direction normal to the longitudinal axis of the core (11), thereby obtaining a conductor (20) having an outer diameter of 0.6 mm or smaller. A partially conductive inner conductor layer (15) is formed around the outer circumferential surface of the conductor (20) and a resin layer (16), a net (17) and a sheath (18) are formed around the inner conductor layer (15) one over another, such that the obtained resistive cable has an outer diameter of 5 mm or smaller. The rubber layer (12) is formed of mixture obtained by mixing 400 parts by weight of ferrite powder to 100 parts by weight of fluororubber, and the inner conductor layer 15 is formed of partially conductive polyolefin resin by means of extrusion.

FIG. 1

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# EUROPEAN SEARCH REPORT

Application Number
EP 94 11 8130

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
|---|---|---|---|
| Y | DE-A-40 34 197 (YAZAKI)<br>* page 3, line 9 - line 36 * | 1,2,11 | H01B7/00 |
| Y<br>A | EP-A-0 329 188 (YAZAKI)<br>* page 3, line 36 - page 5, line 1 * | 1,2,11<br>3,6-9,12 | |
| Y<br>A | US-A-4 700 171 (COFFEY ET AL.)<br>* column 2, line 7 - line 65 * | 1,11<br>4 | |
| E | EP-A-0 644 556 (SUMITOMO)<br>* column 3, line 51 - column 4, line 50 * | 1-4,10,11 | |

TECHNICAL FIELDS SEARCHED (Int.Cl.6)

H01B

The present search report has been drawn up for all claims

| Place of search | Date of completion of the search | Examiner |
|---|---|---|
| THE HAGUE | 19 October 1995 | Demolder, J |

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