

Title (en)

METHOD OF PRODUCING A SUPERCONDUCTING CABLE

Title (de)

HERSTELLUNGSVERFAHREN FÜR SUPRALEITENDES KABEL

Title (fr)

PROCEDE RELATIF A LA FABRICATION D'UN CABLE SUPRACONDUCTEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0133578A1] By a method of producing a superconducting cable, a thin layer of plastics (13) is optionally applied onto a preferably flexible pipe (1). A layer of superconducting tape (2) is applied according to a helical line onto the layer (13) prior to, during or after the application of a lubricant (11) admixed solid particles (12). Yet another layer of plastics and of superconducting tape (2) is applied onto the layer of superconducting tape (2) a number of times, the angle of inclination of the superconducting tape being variable. The last-mentioned layer of superconducting tape is applied yet another layer of plastics following by a steel pipe (4) and finally yet another pipe (5) so as to provide a vacuum between said pipes, spacers (6) being placed between said pipes (4, 5). As a result, a superconducting cable is obtained which is flexible at room temperature and which presents a considerable strength at the temperatures at which the superconducting properties can be utilized.

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