Title: SUPERCONDUCTING CABLE HAVING A FLEXIBLE FORMER

Abstract: In order to provide a flexible oxide superconducting cable (10) which is reduced in AC loss, tape-shaped superconducting wires (15) covered with a stabilizing metal are wound on a flexible former (13). The superconducting wires (15) are preferably laid on the former at a bending strain of not more than 0.2%. In laying on the former (13), a number of tape-shaped superconducting wires (15) are laid on a core member in a side-by-side manner, to form a first layer. A prescribed number of tape-shaped superconducting wires (15) are laid on top of the first layer in a side-by-side manner, to form a second layer. The former (13) may be made of a metal, plastic, reinforced plastic, polymer, or a composite and provides flexibility to the superconducting wires (15) and the cable (10) formed therewith.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01B 12/00
US CL : 29/599; 174/125.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 29/599; 174/125.1; 505/230, 231, 430, 431

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

USPTO APS EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<tr>
<td>X,P</td>
<td>US 6,313,408 B1 (FUJIKAMI et al) 06 November 2001 (06.11.2001), see entire</td>
<td>1-6,11,12,20-22</td>
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<tr>
<td></td>
<td>document.</td>
<td>7-10, 13</td>
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<td>Y,P</td>
<td>US 5,932,523 A (FUJIKAMI et al) 03 August 1999 (03.08.1999), see entire document.</td>
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<td>X</td>
<td>US 6,284,979 B1 (MALOZEMOFF et al) 04 September 2001 (04.09.2001), see entire</td>
<td>7-10</td>
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</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search

30 May 2003 (30.05.2003)

Date of mailing of the international search report

15 AUG 2003

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Authorized officer

JEREMY NORRIS

Telephone No. (703) 308-0956

Facsimile No. (703) 305-3230

Form PCT/ISA/210 (second sheet) (July 1998)