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(54) Title: TRIAXIAL HTS CABLE

(57) Abstract: A high temperature superconducting (HTS) transmission cable (10) based on the cold dielectric concept with an HTS shield (16) that houses all three phases (22, 23, 24) inside a single cryostat without causing large degradation and loss due to magnetic fields generated by the neighboring phases. Each phase consists of two layers of BSCCO-2223 HTS tapes.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/24244

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01B 11/06, 7/18, 5/00, 5/08

US CL : 174/36, 102R, 102C, 105SC, 126.1, 126.3, 128.1, and 128.2

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. : 174/36, 102R, 102C, 105SC, 126.1, 126.3, 128.1, and 128.2

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)
EAST APS TEXT SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	DE 43 40 046 A1 (KNAAK) 01 June 1995 (01.06.1995), Cols 1-3, Fig 1	1-3, 5, and 7-10
Y		4 and 6
Y	WO 00/33393 A (HAN) 08 June 2000 (08.06.2000), Pages 1-8, Figs 1-4	4 and 6
A	US 5,929,000 A (HAHAKURA et al), 27 July 1999 (27.07.1999), Cols 1-22, Figs 1-18	1-9



Further documents are listed in the continuation of Box C.



See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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