Abstract: A transmission cable for use in an elongate medical device (420) such as a catheter, guide wire, etc., wherein the transmission cable is capable of being switched to an MR-safe mode only when necessary, while retaining its optimal electrical transmission properties otherwise, is disclosed herein. The transmission cable comprises a transmission line including at least two electrically conductive line segments (104a, 104b) separated by a non-conductive gap (106a), abridging unit comprising at least one electrically conductive bridge segment (108a) capable of bridging the non-conductive gap, and a switching unit (112) arranged to move the bridging unit and/or the transmission line to electrically connect the two line segments by closing the non-conductive gap using the bridge segment or to electrically disconnect the two line segments by opening the non-conductive gap.

FIG. 1

[Continued on next page]
Declaration under Rule 4.17:
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H)) — before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Published:
— with international search report (88) Date of publication of the international search report:

9 April 2009
A. CLASSIFICATION OF SUBJECT MATTER

INV. G01R33/28

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

GOIR A61M

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

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

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>WO 2008/015605 A (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS INTELLECTUAL PROPERTY [DE]) 7 February 2008 (2008-02-07) page 3, line 20 - line 24 page 4, line 3 - page 5, line 6 page 6, line 25 - page 7, line 9 page 7, line 32 - page 8, line 10 page 9, line 8 - line 30 figures 1b, 2, 3</td>
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Further documents are listed in the continuation of Box C

See patent family annex

Special categories of cited documents

'A' document defining the general state of the art which is not considered to be of particular relevance

'E' earlier document but published on or after the international filing date

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Date of the actual completion of the international search

6 February 2009

Date of mailing of the international search report

18/02/2009

Name and mailing address of the ISA/

European Patent Office, P B 5818 Patentlaan 2 NL - 2280 HV RUSWALD Tel (+31-70) 340-2040 Fax (+31-70) 340-3016

Authorized officer

Berndorfer, Urs
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This international search report has been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☑ Claims Nos. 9 to 10 because they relate to subject matter not required to be searched by this Authority, namely
   
   Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

2. ☐ Claims Nos/ because they do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.

3. ☐ Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims

2. ☑ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.

4. ☑ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos

**Remark on Protest**

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation

☐ No protest accompanied the payment of additional search fees

Form PCT/ISA/21 0 (continuation of first sheet (2)) (April 2005)
## International Search Report

Information on patent family members

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