**Title:** IMAGER ASSEMBLY FOR REMOTE INSPECTION DEVICE

**Abstract:** An imager assembly for a remote inspection device includes an imager body. A circuit board retainer is slidably received through an end of the imager body. The circuit board retainer has deflectable legs separated by a slot. A circuit board assembly has an imager device connected to a first circuit board. A second circuit board is electrically connected to the first circuit board. The second circuit board is received in the slot of the circuit board retainer and frictionally engaged by the deflectable legs. A flexible tube has a first end connected to an end of the imager body using a first ferrule. A male connector is connected to a second end of the flexible tube using a second ferrule. A wiring harness is disposed through a bore of the flexible tube.
Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report: 30 December 2009
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04N 7/18 (2009.01)
USPC - 348/81
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)
USPC: 348/81

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 348/81, 73, 82 (text search - see terms below)

Electronic database consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPA); Google Scholar
Search Terms: wiring, harness, impedance, capacitance, flexible, connector, circuit, endoscope, scope, snake, camera, ccd, video, slot, retainer, ferrule, remote device, circuit board, twisted wire pair, 100 ohms

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>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2007/0117437 A1 (BOEHNLEIN et al.) 24 May 2007 (24.05.2007), entire document, especially: Fig. 1, 2A, 3, 5A, 6A, 7, 14C, 14D, 14E, 15, 17; para [0034], [0041], [0059], [0060], [0067], [0072], [0073], [0080]</td>
<td>1-9, 14-26, 30-32</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search
21 April 2009 (21.04.2009)

Date of mailing of the international search report
30 APR 2009

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
Facsimile No. 571-273-3201

Authorized officer: Lee W. Young
PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2007)