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28 April 2005

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

International Application No
PCT/US2004/016474

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01L1/22 G01L5/10 G01L3/10

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)
IPC 7 G01L

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
L,P, X	US 2004/060369 A1 (YUAN JING ET AL) 1 April 2004 (2004-04-01) document throws doubts on priority claim the whole document	1-17
X	US 4 015 468 A (SIMON) 5 April 1977 (1977-04-05) column 1, line 7 - line 48 column 2, line 29 - column 3, line 16 figures 1-4,9	1-17

Further documents are listed in the continuation of box C.

Patent family members are listed in 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

"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)

"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

"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

"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

"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.

"&" document member of the same patent family

Date of the actual completion of the international search

6 October 2004

Date of mailing of the international search report

07 Oct 2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/016474

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 36 03 187 A (ERHARDT & LEIMER GMBH) 6 August 1987 (1987-08-06) abstract column 3, line 3 - line 11 column 4, line 39 - line 45 column 5, line 5 - column 6, line 59 claims 1,9 figure 1 -----	1-17
X	DE 199 60 786 A (SCHENCK PROCESS GMBH) 21 June 2001 (2001-06-21) abstract column 2, lines 56-68 column 3, lines 1-43; figures 1,2,4 -----	1-5
A	US 4 281 539 A (KELLER ROLF) 4 August 1981 (1981-08-04) column 2, line 23 - line 58 figures 1,2 -----	1-17
A	US 4 581 947 A (WULF ET AL) 15 April 1986 (1986-04-15) column 5, line 51 - line 58 figure 1 -----	1,11
A	US 6 216 547 B1 (LEHTOVAARA JORMA J) 17 April 2001 (2001-04-17) column 1, lines 4-10 column 1, lines 40-65 column 2, lines 54-64 column 6, lines 3-12; figures 1,2 -----	1-17

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/016474

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that 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).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

see additional sheet

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 fee, this Authority did not invite payment of any additional fee.
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.:

1-17

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-17

Constructional details of a hubload transducer

2. claims: 18-26

Constructional details of a torque transducer

3. claims: 27-29

Method for measuring a belt dynamic tension in an operating drive belt system

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/016474

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004060369 A1	01-04-2004	WO 2004031713 A1	15-04-2004
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