a wedge ring (60) is provided for securing a centralizer (50) or other structure to a tubular element. The wedge ring (60) comprises a first surface comprising a plurality of teeth (64) configured to engage a surface of the tubular element. The wedge ring (60) also comprises a second surface that is threaded (66) to engage a complementary threaded surface (68) of the centralizer (50) or other structure.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B17/010
ADD.

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)
E21B  E16L

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 practicable, search terms used)
EPO-Internal, WPI Data, TULSA

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>
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<td>Y</td>
<td>GB 2 258 895 A (LUCAS IND PLC [GB]) 24 February 1993 (1993-02-24) page 3, last paragraph - page 4, paragraph 1; figure 1</td>
<td>1-7</td>
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<td>Y</td>
<td>column 1, line 50 - line 58 column 2, line 9 - line 45 column 3, line 40 - line 58 column 4, line 30 - line 45 figures 1,2a, 2b</td>
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</table>

[X] Further documents are listed in the continuation of Box C. [X] 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 application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or one 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 novel or 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
29 January 2014

Date of mailing of the international search report
14/03/2014

Name and mailing address of the ISA
European Patent Office, P.B. 5018 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer
Schnei derbauer, K

Form PCT/ISA/210 (second sheet) (April 2005)
<table>
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<tr>
<td>Y</td>
<td>US 2 872 226 A (WRIGHT KENNETH A ET AL) 3 February 1959 (1959-02-03) COLUMN 2, LINE 71 - COLUMN 3, LINE 17; FIGURES 2, 4</td>
<td>10-12</td>
</tr>
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</table>
**INTERNATIONAL SEARCH REPORT**

**Box No. II**  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established respecting 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 No. 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 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.:

   "see additional sheet(s)"

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

1. claims: 1-13

   Wedge ring with two surfaces which grip a tubular element (independent claim 1) and which enable a centraliser to be attached to a liner string (independent claim 8).

2. claims: 14-20

   A centraliser, comprising: a tubular body; one or more raised features projecting outward from the tubular body; a first end comprising a first inner surface threaded in a first direction; and a second end comprising a second inner surface threaded in a second direction opposite the first direction.
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<tr>
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<td>GB 2258895</td>
<td>24-02-1993</td>
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<td>US 5163514</td>
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<td>US 2003024707 A1</td>
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