Title: SUPER SHOE SWELL PACKER

Abstract: System and methods for effectively and efficiently cementing a casing annulus are disclosed. A packer system (600) includes an outer case (708), a landing collar within the outer case and a slidable shifting sleeve (726) coupled to the landing collar (704). The landing collar and the shifting sleeve are movable. A connector (720) coupled to the shifting sleeve and is movable in a movement slot (722) with the shifting sleeve. A rubber element (716) is coupled at one end to the connector and is on an outside surface of the outer case. The displacement of the connector in the movement slot compresses the rubber element.

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— with international search report (Art. 21(3))
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. E21B17/14 E21B33/16

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<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>A</td>
<td>US 5 437 330A (GAMBERTOGLIO LOUIS M [US]) 1 August 1995 (1995-08-01) figures 1A, 1B</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 application of patent or published on or after the international filing date
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Date of the actual completion of the international search
3 April 2012

Name and mailing address of the ISA
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NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040
Fax. (+31-70) 340-3016

Date of mailing of the international search report
17/07/2012

Authorized officer
Georgescu, Mi hnea
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).

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.:

1-9

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

1. **Claims**: 1-9

   A packer system comprising: an outer case; a landing collar within the outer case; a slideable shifting sleeve coupled to the landing collar; wherein the landing collar and the shifting sleeve are movable; a connector coupled to the shifting sleeve; wherein the connector is movable with the shifting sleeve; wherein the connector is movable in a movement slot; a rubber element coupled at one end to the connector; wherein the rubber element is on an outside surface of the outer case; wherein a displacement of the connector in the movement slot compresses the rubber element.

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2. **Claims**: 10-17

   A method of cementing a subterranean formation comprising: pumping cement through a casing; introducing a wiper plug in the casing; wherein the wiper plug pushes the cement through the casing; landing the wiper plug on a landing collar; wherein the landing collar is coupled to a shifting sleeve; wherein the shifting sleeve is operable to compress a rubber element; applying pressure to the landing collar; and compressing the rubber element.

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