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(71) Applicant (*for all designated States except US*): **BAKER HUGHES INCORPORATED** [US/US]; P.O.Box 4740, Houston, TX 77027 (US).

(71) Applicant and

(72) Inventor (*for all designated States except US*): **WILLAUER, Darrin, L.** [US/US]; 79 North Brooksedge, The Woodlands, TX 77382 (US).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **DUAN, Ping** [US/US]; 26325 Northgate Crossing Blvd., Spring, TX 77373 (US).

(74) Agent: **PORTER, Andre, J.**; Baker Hughes Incorporated, P.O. Box 4740, Houston, TX 77027-4740 (US).

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(54) Title: APPARATUS AND METHOD FOR CONTROLLED DEPLOYMENT OF SHAPE-CONFORMING MATERIALS

(57) Abstract: An apparatus and method for filling a defined space, such as an annulus around a production tubular within a well-bore, includes a compliant porous material. The compliant porous material can be compressed and maintained in a compressed state by incorporation of a deployment modifier, which may be a water-soluble or oil-soluble adhesive or biopolymer, used as an impregnant, a coating, or a casing. The production tubular can be positioned at a desired location and the compliant porous material exposed to a deployment modifier neutralizing agent, which then dissolves or otherwise prevents the deployment modifier from continuing to inhibit deployment. Thus, deployment can be delayed to an optimum time by preventing exposure of the deployment modifier to the deployment modifier neutralizing agent.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B43/04 E21B43/08 E21B43/10

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)
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 practical, search terms used)

EPO-Internal

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Name and mailing address of the ISA/

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

Authorized officer

van Berlo, André

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

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