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(74) Agents: **JOHNSON, Philip, S.** et al.; Johnson & Johnson,
One Johnson & Johnson Plaza, New Brunswick, NJ 08933-
7003 (US).

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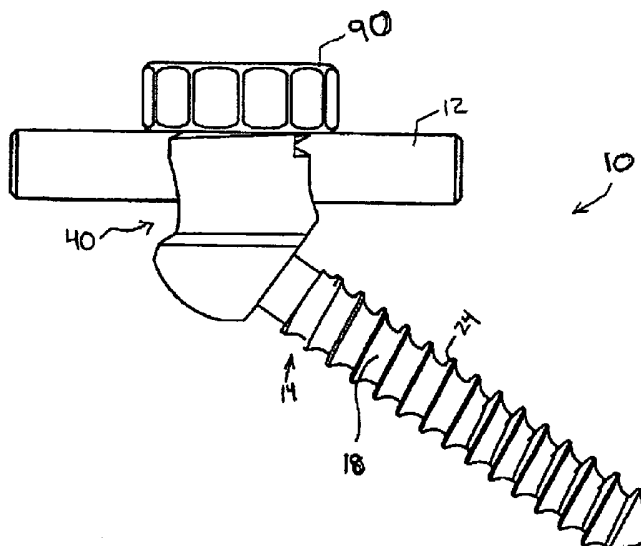
(71) Applicant (for all designated States except US): **DEPUY
SPINE SARL** [US/CH]; Chemin Blancs 36, CH-2400 Le
Locle (CH).

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(54) Title: BONE ANCHOR ASSEMBLIES AND METHODS OF MANUFACTURING BONE ANCHOR ASSEMBLIES



(57) Abstract: A bone anchor assembly may include a bone anchor having a proximal head and a distal shaft configured to engage bone and a receiving member for receiving a spinal fixation element to be coupled to the bone anchor. The receiving member may have a first end having a first bore defining a first bore axis, a recess in communication with the first bore, and a second end having a second bore sized to receive at least a portion of the bone anchor. The second bore may define a second bore axis that intersects the first bore axis and may have a first opening through which the at least a portion of the bone anchor extends and a second opening opposite the first opening. The second opening may be sized to pass the head of the bone anchor during assembly of the bone anchor assembly.



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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)

U.S. : 606/61,72,73

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0055426 A1 (CARBONE et al) 20 March 2003 (20.03.2003), See whole document.	1, 4-9, 11-16, 18-41
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Y		2, 3, 10, 17
Y	US 6,280,442 B1 (BARKER et al) 28 August 2001 (28.08.2001), See column2, line 60-column 3, line 6.	2, 3, 17
Y	US 6,641,586 B2 (VARIEUR) 04 November 2003 (04.11.2003), See column 3, line 60 - column 4, line 27.	10

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
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Facsimile No. (571) 273-3201

Authorized officer

Jessica R. Baxter

Telephone No. 703-308-0858