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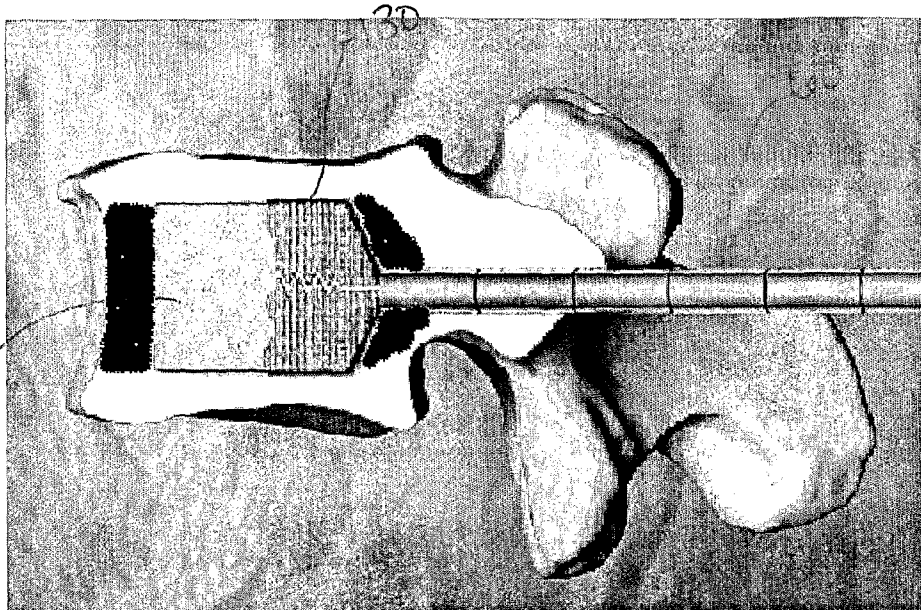
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(54) Title: DEVICES AND METHODS FOR THE TREATMENT OF BONE FRACTURE



(57) Abstract: Devices and methods for treating bones having bone marrow therein, or other targeted anatomical locations, including bones that are weakened, suffering from or prone to fracture and/or disease. The disclosed devices desirably prepare the targeted anatomical site for a flow of filling/stabilizing and/or therapeutic material, and then provide for control of the flow of material within the targeted anatomical site, measure the volume of material delivered to the site of interest, and prevent the placement of materials in unintended locations. Once material has been delivered, some or all of the flow control devices can be removed from the targeted anatomical site.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8): A61B 17/56 (2006.01)
 USPC: 606/92

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)
 USPC: 606/62; 606/72; 606/86; 606/80; 606/92-94; 606/102

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Clinical Orthopaedics & Related Research Operative Techniques in Sports Medicine
 Topics in Spinal Cord Injury Rehabilitation The Journal of Bone and Joint Surgery

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Scholar.google: Passage; Stabilizing; Separating or separation; Plane; Bone; Fracture; Treatment; Bone cement or PMMA; Flowable; Polyurethane; Vertebroplasty; Kypnoplasty
 WEST(PGPB,USPT,EPAB,JPAB): Vertebroplasty; Kypnoplasty; Bone; Fracture; Treatment; Bone cement or PMMA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---------------|---|------------------------|
| X --- Y | US 2004/0098015 A1 (WEIKEL et al) 20 May 2004 (20.05.2004), in entirety, especially Para [0015], [0060], [0062], [0065], [0072], [0074] | 1-19 ----- 20-23 |
| Y | US 2004/0102774 A1 (TRIEU) 27 May 2004 (27.05.2004), Fig 3,5,7,9,11,13, 26-27, 29-33 Para [0005] and [0065] | 20-23 |
| Y,P | US 2006/0085081 A1 (SHADDUCK et al) 20 Apr 2006 (20.04.2006), Fig 3, 4A, 4B, 6, 7, Para [0007]-[0011], [0031], [0033], [0042] | 1-23 |
| X,E | US 2006/0229625 A1 (TRUCKAI et al) 12 Oct 2006 (12.10.2006), Fig1-9 Para [0007]-[0009], [0015], [0036]-[0054] | 1-23 |
| X,P | US 2005/0267483 A1 (MIDDLETON) 01 Dec 2005 (01.12.2005), Fig 3, 4A, 4B, 5B, 6A, Para [0027], [0031]-[0033], [0035] | 1-23 |
| X,P | US 2006/0247648 A1 (SERBOUSEK) 02 Nov 2006 (02.11.2006), Fig 4(a)-4(g), 5, 6, Para [0018]-[0020], [0022], [0023], [0028]-[0037] | 23 |
| X,E | US 2006/0155296 A1 (RICHTER) 13 Jul 2006 (13.07.2006), Fig 5-7, Para [0030]-[0040] | 1-23 |

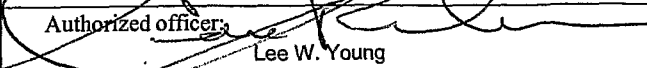
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