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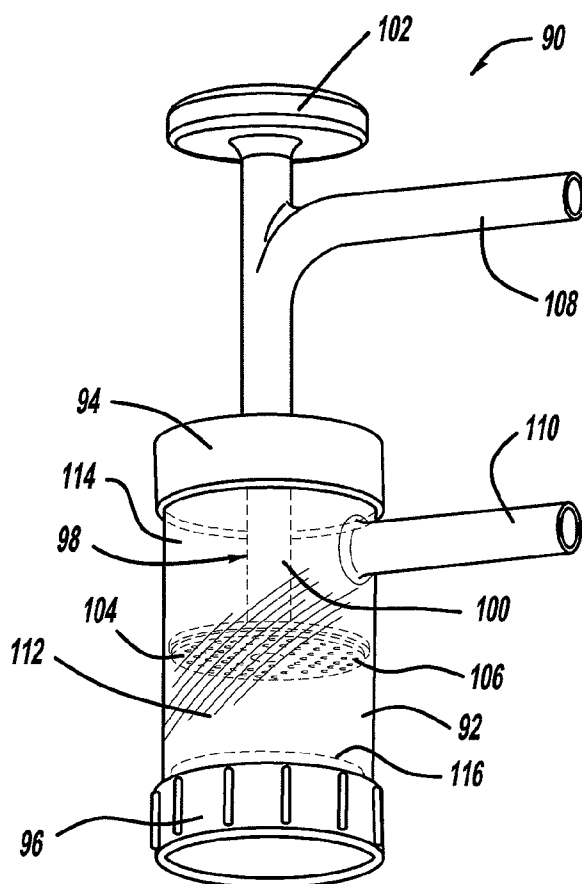
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[Continued on next page]

(54) Title: DEVICE FOR COLLECTING BONE MATERIAL DURING A SURGICAL PROCEDURE



(57) Abstract: A collection device for collecting bone material during a spinal fusion surgical procedure so that the bone material can later be used as a graft material for the fusion procedure. The device includes a container that collects the bone and other material that is removed from the patient during the surgical procedure through a suction hose. The device includes a plunger having a filter plate sealed to the inside of the container. The plunger is pushed down into the collected material in the container so that blood and other liquids are forced through the plate to be separated from the bone material. A cover at the bottom of the container can be removed to remove the collected bone material.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- *with information concerning request for restoration of the right of priority in respect of one or more priority claims*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/67129

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 10/02 (2007.10); A61M 5/178 (2007.10)

USPC - 604/36; 604/38

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)

IPC(8): A61B 10/02; A61M 5/178

USPC: 604/36; 604/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8): A61B 10/02; A61M 5/178

USPC: 604/36; 604/38; 604/19

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

-USPTO WEST (USPT, PGPUB, EPAB, JPAB); -bone, collect\$, filter, rod, container, cover, suction, vacuum, tissue, blood, cylinder, chamber, couple\$, tube, valve, liquid, fluid, ?first chamber?, ?second chamber?, outlet, plate, ?outlet tube?, spin\$, fusion, surgery

-Google Scholar

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 6,017,349 A (HELLER, et al.) 25 January 2000 (25.01.2000), [Abstract], col 1, ln 7-14; col 4, ln 24-27; col 4, ln 44-46; col 5, ln 2-7; col 5, ln 24-57; col 6, ln 30-34; col 7, ln 44-60; Figs. 1, 5, 6, 7b, 7c, 7f, 10d-10h | 1, 6, 14 ----- 2-5, 7-13, 15-17, 27 |
| X --- Y | US 2004/0115590 A1 (TAKAHASHI) 17 June 2004 (17.06.2004), para[0006], Fig. 1 | 18-23, 26 ----- 2-5, 9, 15, 24, 25, 27 |
| Y | US 2003/0075564 A1 (WAHLIG, et al.) 24 April 2003 (24.04.2003), [Abstract], para[0009], [0015], [0016], [0031], [0034], [0035], [0040], Figs. 1, 3 | 7-13, 16, 24, 25, 27 |
| Y | US 5,788,976 A (BRADFORD) 04 August 1998 (04.08.1998), col 3, ln 36-57; col 4, ln 57-67 to col 5, ln 1-25 | 17 |
| Y | US 2006/0018799 A1 (WONG, et al.) 26 January 2006 (26.01.2006), para[0064], [0066], Figs. 8, 12, 13 | 10-13 |

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Further documents are listed in the continuation of Box C.

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"Y" document of particular relevance; the claimed invention 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

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