



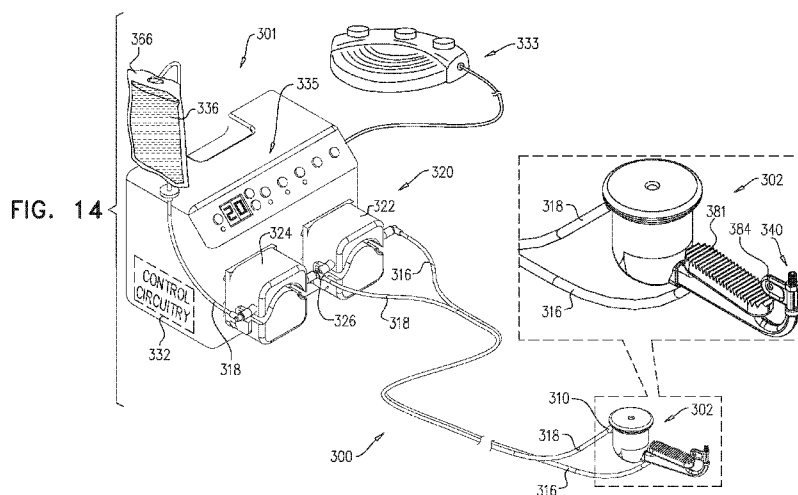
- (51) International Patent Classification:
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US 14/707,688 (CIP)
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- (74) Agents: COLB, Sanford T. et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL).
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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: BONE GRAFT INJECTION OSTEOTOME



(57) Abstract: A composition delivery source (300) includes a chamber (302), a solid-liquid composition delivery tube (314), a mixing tube (316), and a liquid-supply tube (318). A filter (304) divides the chamber (302) into a liquid compartment (306) and a solid-liquid composition compartment (308). The solid-liquid composition delivery tube (314) is in fluid communication with the solid-liquid composition compartment (308). The mixing tube (316) is in fluid communication with the liquid compartment (306) and the solid-liquid composition compartment (308). The liquid-supply tube (318) is in fluid communication with the liquid compartment (306) and a liquid solution container (366). A pump unit (301) is provided that includes a mixing pump (322), which is arranged to cause flow in the mixing tube (316); and a liquid-supply pump (324), which is arranged to cause flow in the liquid-supply tube (318). Other embodiments are also described.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2016/050423

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61C8/00 A61C1/00
ADD.
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)
A61C
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

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/054461 A1 (FORNASARI PAOLO [IT]; VETTORI CRISTIANO [IT]) 1 July 2004 (2004-07-01) the whole document	1-37
A	US 2014/329197 A1 (BASSETT JEFFREY [US] ET AL) 6 November 2014 (2014-11-06) paragraphs [0032], [0069], [0076], [0077]; figures	1-37
A	WO 2013/157000 A1 (DARSHAN YEHUDA [IL]; LIFSHITZ AMNON [IL]) 24 October 2013 (2013-10-24) claims 1, 8, 9, 10, 12, 15, 28; figures	1-37
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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 or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "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

Date of the actual completion of the international search 22 August 2016	Date of mailing of the international search report 27/10/2016
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 Fouquet, Michèle

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2016/050423

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 110 509 A1 (VERCELLOTTI TOMASO [IT]; BIANCHETTI FERNANDO [IT]; VERCELLOTTI DOMENIC) 27 June 2001 (2001-06-27) the whole document	1-37
A	----- WO 2009/062225 A2 (UNIV WIEN MED [AT]; WATZEK GEORG [AT]; UNGER EWALD) 22 May 2009 (2009-05-22) abstract; figures	1-37
A	----- US 2014/140815 A1 (SHENER-IRMAKOGLU CEMAL [US] ET AL) 22 May 2014 (2014-05-22) abstract; figures	1-37
A	----- US 2012/094254 A1 (UCHITEL ILAN [IL] ET AL) 19 April 2012 (2012-04-19) figures	1-37
A	----- EP 1 145 689 A2 (NAKANISHI INC [JP]) 17 October 2001 (2001-10-17) abstract; figures	1-37

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2016/050423

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

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).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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.:

1-37

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-37

Apparatus for use with solid particles

2. claim: 38

Apparatus for use with solid particles

3. claim: 39

Apparatus for use with solid particles

4. claims: 40-48

Apparatus comprising a surgical tool

5. claims: 49-59(completely); 67-79(partially)

Apparatus comprising a surgical tool

6. claims: 60(completely); 67-79(partially)

Apparatus comprising a surgical tool

7. claims: 61-66(completely); 67-79(partially)

Apparatus comprising a surgical tool

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IL2016/050423

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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