



- (51) International Patent Classification:
A61G 15/02 (2006.01) *A61G 15/12* (2006.01)
A61G 13/08 (2006.01)
- (21) International Application Number:
PCT/US2011/065166
- (22) International Filing Date:
15 December 2011 (15.12.2011)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
12/973,765 20 December 2010 (20.12.2010) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: ADJUSTABLE HAIR TRANSPLANTATION CHAIR

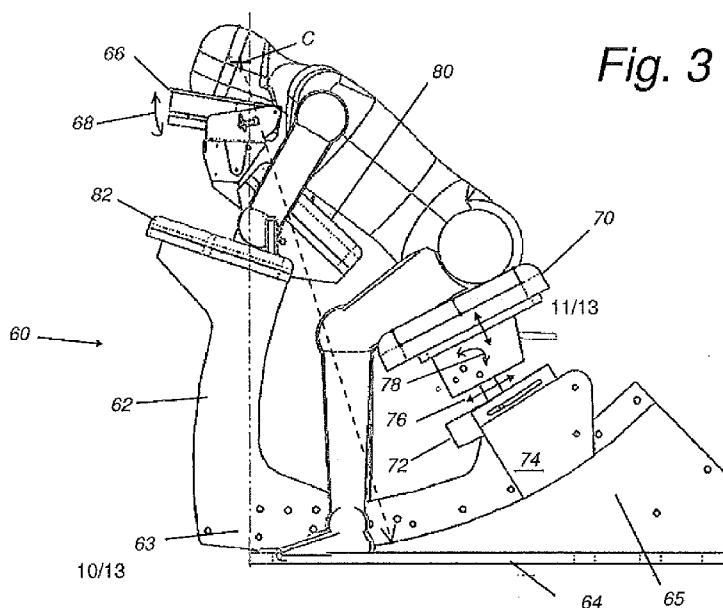


Fig. 3

(57) Abstract: A convertible chair, for example, a hair transplantation chair that permits movement of the patient during a procedure while the patient's head remains substantially stationary. The chair may include a head support and a plurality of body supports that may be mounted on a base, or on a cradle movably attached to the base. The chair can be configured for a follicular unit harvesting procedure and it could be also converted into a hair implantation configuration for hair implantation procedure. The patient remains in the chair during the procedure with his head substantially stationary, while various parts of his body may be repositioned, for example, by rotation of the cradle. The chair may be automated, or assisted with pneumatics, motors, foot pumps and the like. The chair is particularly useful for assisting robotic hair transplantation procedures.



(88) Date of publication of the international search report:
26 October 2012

A. CLASSIFICATION OF SUBJECT MATTER*A61G 15/02(2006.01)i, A61G 13/08(2006.01)i, A61G 15/12(2006.01)i*

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)

A61G 15/02; A45D 19/00; A47C 1/035; A45D 44/10; A61H 1/00; A61G 15/12; A47C 1/024

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: convert, hair, transplantation, chair, seat, rotate, pivot, cradle, carriage

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 06056363 A (MADDOX, LEE W.) 02 May 2000 See the abstract, claim 1, column 2, lines 28-31, and figure 1.	1-5, 18-20
A	US 2010-0147314 A1 (LEES, KEVIN) 17 June 2010 See the abstract, claims 1, 7, paragraph [0041], and figure 6.	1-5, 18-20
A	EP 1555005 A2 (OMRON HEALTHCARE CO., LTD.) 20 July 2005 See the abstract, claim 1, paragraphs [0039], [0041], and figure 1.	1-5, 18-20
A	US 04918767 A (BENTING, GARY M.) 24 April 1990 See the abstract, claim 1, column 2, lines 29-31 and lines 36-39, and figure 1.	1-5, 18-20



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 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

28 JUNE 2012 (28.06.2012)

Date of mailing of the international search report

28 JUNE 2012 (28.06.2012)

Name and mailing address of the ISA/KR

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Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US2011/065166**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.: 22-25
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 22-25 pertain to methods for treatment of human body by therapy, and thus relate to a subject matter which this International Searching Authority is not required to search under Article 17(2)(a)(i) and Rule 39.1(iv) PCT.
2. ☒ Claims Nos.: 9-11, 15, 17
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:
Claims 9-11, 15, and 17 refer to multiple dependent claims that refer to other multiple dependent claims. Therefore, the meaning of the technical feature to which they refer is vague and unclear, and these claims do not meet the requirement of PCT Article 6.
3. ☒ Claims Nos.: 6-8, 12-14, 16, 21, and 25
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:

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 fee, this Authority did not invite payment of any additional fee.
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.:

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/065166

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 06056363 A	02.05.2000	None	
US 2010-0147314 A1	17.06.2010	None	
EP 1555005 A2	20.07.2005	CN 1647724 A	03.08.2005
		CN 1647724 C0	03.08.2005
		EP 1555005 A3	31.08.2005
		JP 2005-198979 A	28.07.2005
		KR 10-2005-0076623 A	26.07.2005
US 04918767 A	24.04.1990	None	