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GE2012A000034 28 March 2012 (28.03.2012) IT(71) Applicant: **LIPOGEMS INTERNATIONAL S.R.L.**
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AO, AT, AU, AZ, BA, BB, BG, BH, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ,
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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).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

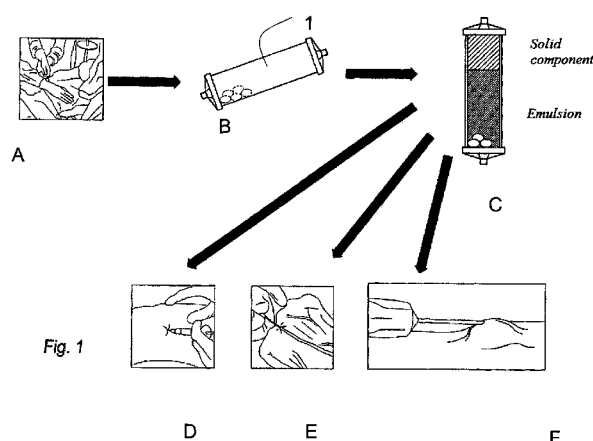
Published:

— 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))

(88) Date of publication of the international search report:

28 November 2013

(54) Title: PREPARATION AND METHOD FOR PRODUCING A PREPARATION COMPRISING MESENCHYMAL STEM
CELLS

(57) Abstract: Preparation and method for producing a preparation or a tissue derivative comprising mesenchymal stem cells, to be used in cellular therapy, for cosmetic treatments, for replacing a tissue or an organ, or inducing or accelerating tissue repair or regeneration. Said method provides at least the following steps: - extraction (5) of tissue containing mesenchymal stem cells, such as adipose tissue, from a cadaveric donor by liposuction process or by surgical removal of parts of adipose tissue, - mechanical treatment (6) of said tissue, said tissue, such as the adipose tissue, being composed of a fluid component comprising an oily component, a blood component and/or sterile solutions and of a solid component comprising cell fragments, cells and one or more cell macro-agglomerates of heterogeneous sizes, and said mechanical treatment step (6) being provided for separating and removing the fluid component from the solid component, which step of mechanical treatment (6) separating and removing the fluid component from the solid component provides an emulsion of fluid components to be generated, by mechanical stirring.

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2013/052462

A. CLASSIFICATION OF SUBJECT MATTER
INV. C12M3/08
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)
C12N C12M

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, EMBASE, FSTA, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/035742 A2 (VET STEM INC [US]; HARMAN ROBERT J [US]; SAND THEODORE T [US]) 21 April 2005 (2005-04-21) page 2, lines 25-29 page 3, lines 1-6 page 4, lines 1-25 page 8, lines 5-18 page 9, line 13 page 11, lines 10-16 page 12, line 30 - page 13, line 14 page 30, lines 5-22 page 34, lines 21-29 ----- -/--	1,4-7, 10,11, 13,14,16



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

8 July 2013

Date of mailing of the international search report

01/10/2013

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/124776 A1 (SHI YALING [US]) 20 May 2010 (2010-05-20) page 2, paragraph 25 page 5, paragraph 98 page 7, paragraph 127 page 8, paragraph 156 -----	1,7-12, 14,16
X	WO 2011/145075 A2 (TREMOLADA CARLO [IT]) 24 November 2011 (2011-11-24) page 9, lines 20-24 page 10, lines 13-21 page 11, line 3 - page 12, line 32 page 13, lines 5-12 page 13, lines 30-33 page 15, lines 8-22 page 19, lines 27-32 page 25, line 30 - page 27, line 33 page 48, lines 6-15 page 51, lines 22-28 figure 13 -----	1-3, 8-10,15, 23,24
A	AUST L ET AL: "YIELD OF HUMAN ADIPOSE-DERIVED ADULT STEM CELLS FROM LIPOSUCTION ASPIRATES", CYTOTHERAPY, ISIS MEDICAL MEDIA, OXFORD, GB, vol. 6, no. 1, 1 January 2004 (2004-01-01) , pages 7-14, XP009034650, ISSN: 1465-3249, DOI: 10.1080/14653240310004539 page 8, column 1, paragraphs 2,3 -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2013/052462

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005035742 A2	21-04-2005	AU 2004280616 A1	21-04-2005
		CA 2542120 A1	21-04-2005
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		US 2013123747 A1	16-05-2013
		WO 2011145075 A2	24-11-2011

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2013/052462

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.:

1-16, 23, 24

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: 1-16, 23, 24

Directed towards a method and device for obtaining a preparation comprising mesenchymal stem cells from adipose tissue and preparations comprising adipose-derived mesenchymal stem cells.

2. claims: 17-22

Directed towards uses of adipose-derived mesenchymal stem cells in the treatment of disease.
