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(71) Applicant (for all designated States except US): **THE BRIGHAM AND WOMEN'S HOSPITAL, INC.** [US/US]; 75 Francis Street, Boston, Massachusetts 02115 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KHADEMHOSEINI, Ali** [CA/US]; 16 Trowbridge Street #32, Cambridge, Massachusetts 02138 (US). **RAJALINGAM, Bimalraj** [IN/US]; 18 Tufts Street, Apt. #1L, Cambridge, Massachusetts 02139 (US).

(74) Agent: **QUICK, Gary, L.**; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).

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[Continued on next page]

(54) Title: PARYLENE-C STENCILS

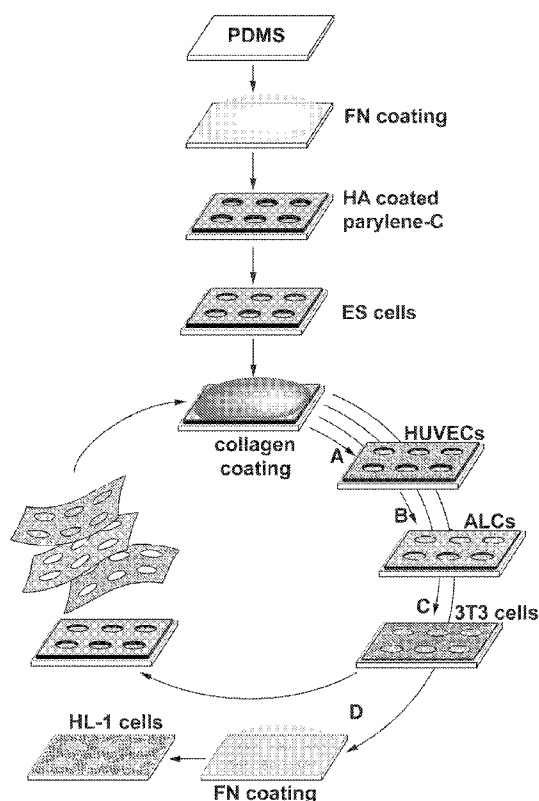


Figure 24

(57) Abstract: A reusable microfabrication stencil is described that can be reversibly sealed on various substrates to pattern biomolecules and biomaterials such as proteins and cells. The stencil may be used for the generation of both static and dynamic co-cultures, and cell aggregates. A multilayer stencil is described that can be used in biological patterning and used to create static and dynamic co-cultures and cell aggregates. Processes for producing and using the microfabrication stencils are also described.



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

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B05D 1/32; B32B 33/00 (2008.04)

USPC - 427/282; 428/41.8

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Patents and NPLElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest (US Patent, PubMed, OCR: classification), DialogClassic (Derwent, Claims, fulltexts US, EPO, WIPO: keyword), GoogleScholar;
search terms: parylene?, xylylene?, ppx, stencil?, mask?, template?, pattern?, protein?, cell?, photoresist?, lithograph?

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,559,474 B1 (CRAIGHEAD et al.) 06 May 2003 (06.05.2003) col 2, ln 13-24; col 4, ln 1-65;	1-8, 11-19
--	col 6, ln 64 to col 7, ln 11; col 9, ln 45 to col 10, ln 27; col 12, ln 35-46	-----
Y		9, 10, 20-22
Y	US 2006/0166218 A1 (ORTH et al.) 27 July 2006 (27.07.2006), para [0007]-[0011], [0030], [0036]	9, 10, 20-22
A	WO 2005/007796 A2 (DEUTSCH et al.) 27 January 2005 (27.01.2005)	1-22
A	WO 2003/035824 A1 (DEUTSCH) 01 May 2003 (01.05.2003)	1-22

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Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
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Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774