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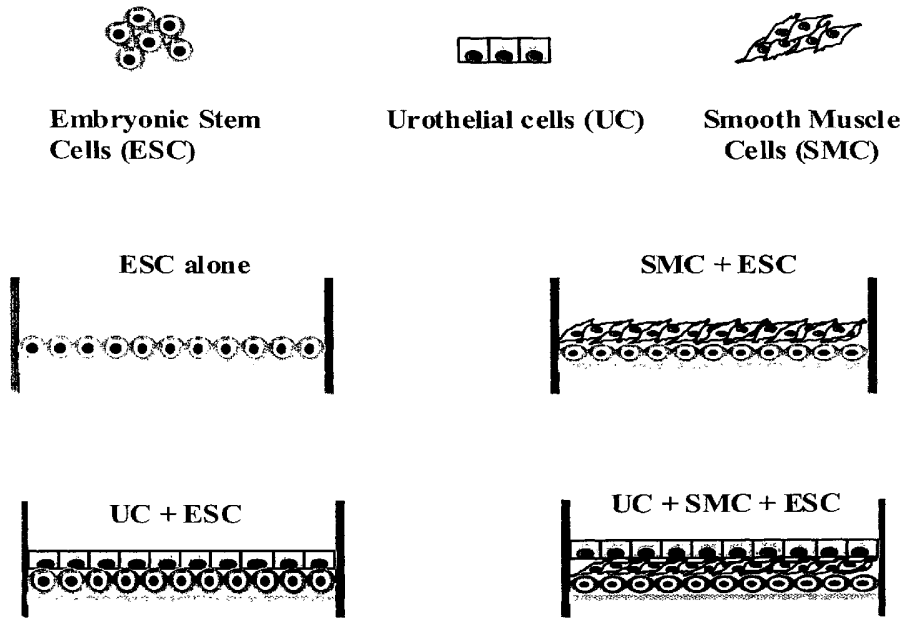
[Continued on next page]

(54) **Title:** TISSUE COMPOSITIONS AND METHODS FOR PRODUCING SAME



(57) **Abstract:** A method for providing a urinary tract tissue graft composition includes providing a segment of small intestinal submucosa and positioning the segment of small intestinal submucosa in a tissue culture frame such that the segment of small intestinal submucosa is suspended and held in a taut position by the tissue culture frame. At least one multipotent cell type is isolated from a tissue specimen of a subject and cultured, and then seeded upon a surface of the segment of small intestinal submucosa, thereby forming a urinary tract tissue graft. Methods for repairing a damaged urinary tract tissue of a subject are also disclosed.

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INTERNATIONAL SEARCH REPORT

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PCT/US03/24173

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 63/00; A61K 35/37; A61F 2/02, 2/04, 2/08; C12N 5/00, 5/08
US CL : 424/93.7, 551; 435/325, 366, 378; 623/13.17, 23.71, 23.72

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)
U.S. : 424/93.7, 551; 435/325, 366, 378; 623/13.17, 23.71, 23.72

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	ZHANG et al. Co-Culture of Bladder Smooth Muscle and Urothelial Cells on Small Intestineal Submocosa (SIS): Evaluation of the Best Culture Method for In Vitro Tissue Engineering Techniques. Pediatrics Journal Suppl. Septermber 1999, pages 807-808, see entire document.	1-11, 28-34, 38, 39, 43 --- 12-27, 35-37, 40-42,
Y	US 5,866,414 A (BADYLAK et al.) 02 February 1999 (02.02.1999), see columns 2 and 11.	1-61
X,P	LU et al. Muscle-Derived Stem Cells Seeded Into Acellular Scaffolds Develop Calcium-Dependent Contractive Activity That Is Modulated by Nicotinic Receptors. Urology, June 2003, Vol. 61, pages 1285-1291, see pages 1286-1287.	1-61
X	US 2002/0087214 A1 (KROPP et al.) 04 July 2002 (04.07.2002), see entire document.	1-61
X,P	US 2002/0155096 A1 (CHANCELLOR et al.) 24 October 2002 (24.10.2002), see pages 3 and 7.	1-61
Y, P	US 6,576,265 B1 (SPIEVACK) 10 June 2003 (10.06.2003), see entire document.	1-61

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Continuation of B. FIELDS SEARCHED Item 3:
WEST: USPAT, EPAB, JPAB, DWPI, PGPUBS
STN: CAPLUS, MEDLINE
search terms: intestinal submucosa, SIS, serosa, mucosa, seed, urinary, tissue graft, stem cell, muscle