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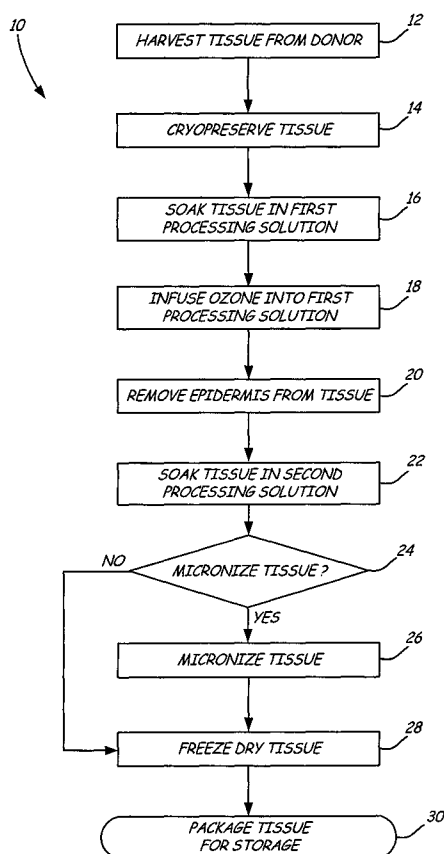
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(54) Title: NOVEL PROCESS FOR DEVITALIZED/ACELLULAR TISSUE FOR TRANSPLANTATION



(57) Abstract: A method for processing tissue to produce a devitalized acellular matrix for transplantation comprises soaking the tissue in a first processing solution having a pH below 7 to reduce protease activity, periodically infusing ozone into the first processing solution to devitalize the tissue and reduce bioburden, and soaking the tissue in a second processing solution to remove cellular debris. The present invention also includes a system for processing the tissue. The devitalized acellular matrix acts as a scaffold for cellular ingrowth when transplanted into a recipient to form new tissue.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
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A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 424/572, 435/284.1, 435/1.3

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)

USPC - 424/572, 435/284.1, 435/1.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 424/572, 520, 574, 435/325, 1.3, 1.1, 284.1, 283.1Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Google(DEVITALIZED/ACELLULAR TISSUE FOR TRANSPLANTATION, Crosscart inc., BACTERIN INTERNATIONAL, Inc, tissue holder preparing, tissue holder screen shaft, tissue holder screen shaft preparing, organ culture screen holder, organ culture screen holder motor, tissue fixing apparatus screen holder motor)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2006/0228252 A1 (MILLIS et al) 12 October 2006 (12.10.2006), para [0012], [0043]-[0044], [0046], [0056], [0059], [0077], [0106]; Fig 3	1-32
Y	US 2003/0156978 A1 (GILLETTE et al) 21 August 2003 (21.08.2003), para [0048], [0053], [0067], [0070], [0075]; Fig 2	25-32
Y	US 2006/0210960 A1 (LIVESEY et al) 21 September 2006 (21.09.2006), para [0003], [0006], [0016], [0023]-[0024], [0026], [0037]-[0038], [0041], [0043], [0045]-[0046], [0141], [0145]-[0148]; claims 6-10 and 15	1-24.
Y	GREENER et al Proteases and pH in chronic wounds, Journal of Wound Care, 01 Feb 2005 (01.02.2005), vol 14, iss 2, pp 59 - 61, abstract only	1-24
Y	US 5,328,821 A (FISHER et al) 12 July 1994 (12.07.1994), col 2, ln 35-36, 38-46	28-32
Y	US 5,613,982 A (GOLDSTEIN) 25 March 1997 (25.03.1997), abstract, col 2, ln 54-63; col 5, ln 20-24, 62-67; col 6, ln 1-3; col 7, ln 49-54	3-4, 19
Y	US 2004/0176855 A1 (BADYLAK) 09 September 2004 (09.09.2004), para [0017]-[0018]	8-9
Y	US 5,403,742 A (FREEMAN) 04 April 1995 (04.04.1995), col 2, ln 29-32; col 3, ln 14-19, 29-32, 47-48; Fig 1	30
Y	US 6,736,833 B2 (COLEMAN) 18 May 2004 (18.05.2004), abstract; col 5, ln 3-6	9

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