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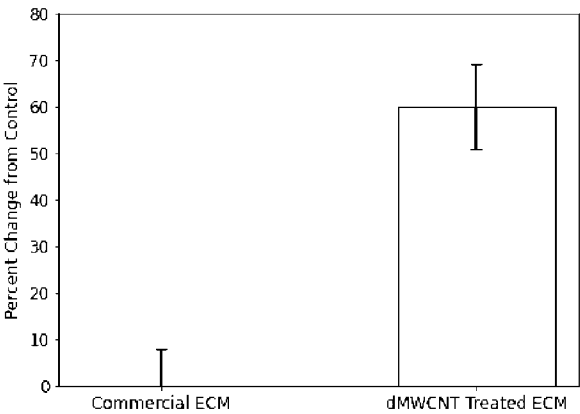


Figure 1

(57) Abstract: The application pertains to compositions and methods useful for growing living cells such as stem cells. The compositions employ a mixture of an extracellular matrix and discrete carbon nanotubes. The extracellular matrix may also comprise components selected from the class of proteins, proteoglycans, polysaccharides, lipids, peptides, messenger molecules, signaling molecules, or any mixture thereof. The discrete carbon nanotubes are usually less than about 1% by weight of the dry weight of the total composition.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
 See Search History document

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2017/177193 A1 (Molecular Rebar Design, LLC) 12 October 2017 (12.10.2017) entirety of document especially para [0002], [0008], [0013], [0019], [0026], [0030], [0036]-[0037], [0045], [0047], [0051]-[0053], [00118]	1-20
A	WO 2020/018535 A1 (Molecular Rebar Design, LLC) 23 January 2020 (23.01.2020) entirety of document	1-20
A	US 2020/0399398 A1 (Deep Science, LLC) 24 December 2020 (24.12.2020) entirety of document	1-20
A	WO 2018/071639 A1 (Advanced Biomatrix, Inc.) 19 April 2018 (19.04.2018) entirety of document	1-20
A	WO 2015/048224 A1 (Johnson et al.) 02 April 2015 (02.04.2015) entirety of document	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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