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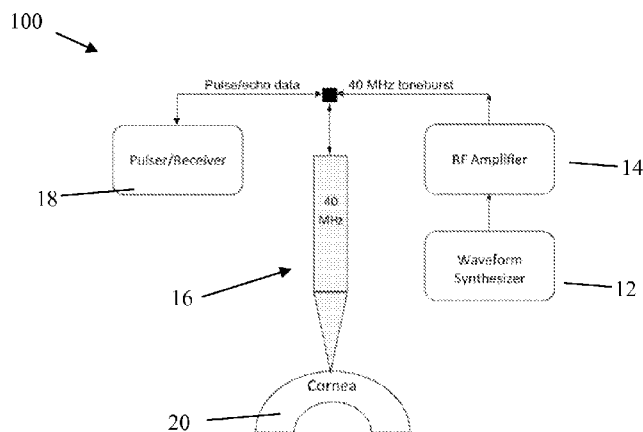


Fig. 1

(57) Abstract: The present disclosed subject matter is directed to medical devices and methods that assist in non-invasively determining elastic properties (e.g., elasticity, viscosity, etc.) of superficial tissues, especially superficial corneal tissues such as the epithelium and stroma, using acoustic energy.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 8/14 (2013.01) USPC - 600/438 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) IPC(8) - A61B 5/103, 5/117; A61B 8/00, 8/10, 8/14 (2013.01) USPC - 600/407, 437, 438, 441, 552, 558, 587 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched CPC - A61B 8/10, 8/13, 8/14 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase, Google Patents, Google		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,039,691 A (WALKER et al) 21 March 2000 (21.03.2000) entire document	1-38
Y	US 5,031,627 A (YOST et al) 16 July 1991 (16.07.1991) entire document	1-38
Y	US 5,293,871 A (REINSTEIN et al) 15 March 1994 (15.03.1994) entire document	12-22, 30
Y	US 2010/0245766 A1 (ZHANG et al) 30 September 2010 (30.09.2010) entire document	26, 27
Y	US 2009/0271155 A1 (DUPPS, JR. et al) 29 October 2009 (29.10.2009) entire document	34
A	US 2007/0032747 A1 (HASHIMSHONY et al) 08 February 2007 (08.02.2007) entire document	1-38
A	US 2005/0240102 A1 (RACHLIN et al) 27 October 2005 (27.10.2005) entire document	1-38
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