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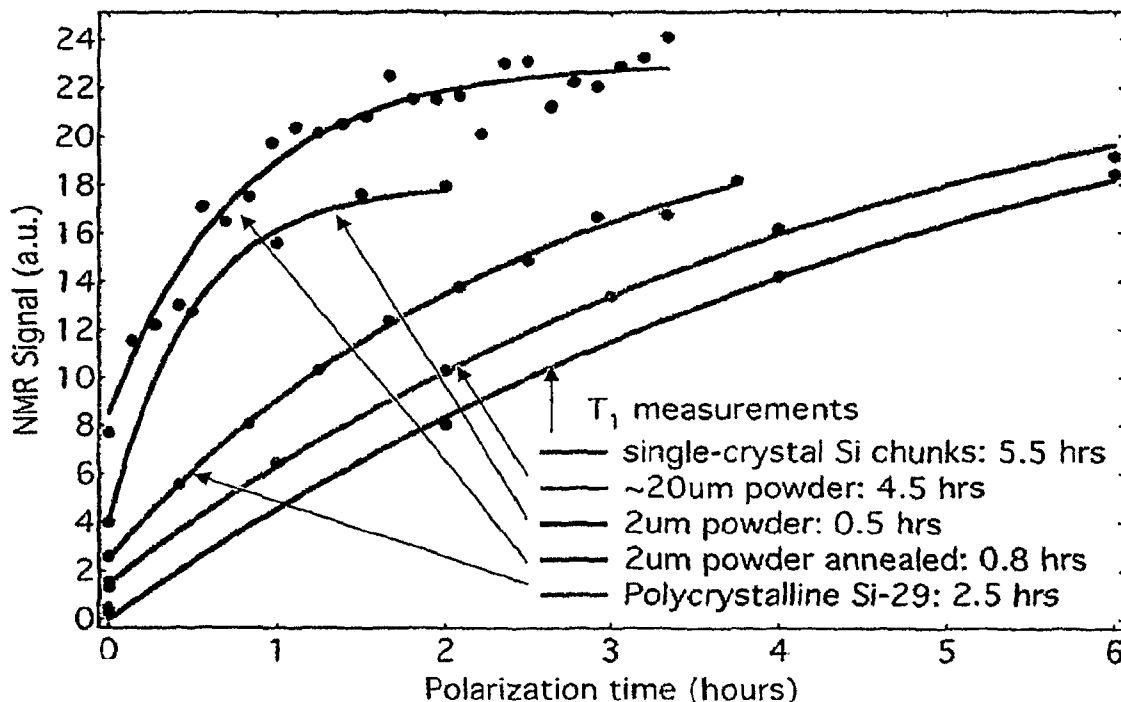
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(54) Title: EX VIVO HYPERPOLARIZATION OF IMAGING AGENTS



(57) Abstract: The present invention generally relates to methods for accelerating the ex vivo induction of nuclear hyperpolarization in imaging agents.

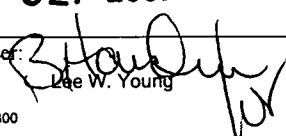
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INTERNATIONAL SEARCH REPORT

International application No.
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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8): G01V 3/00; A61B 5/05 (2007.01) USPC: 324/319; 600/411 According to International Patent Classification (IPC) or to both national classification and IPC</p>																																																					
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8): G01V 3/00; A61B 5/05 (2007.01), USPC: 324/319; 600/411</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 324/319; 600/411, (keyword limited -- see keywords below)</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST, SCHOLAR GOOGLE: hyperpolar, hyperpolarized, hyperpolarization, NMR, MRI, solid, imaging agent, charge carrier, mobile charge</p>																																																					
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DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Golman et al., "Molecular imaging using hyperpolarized 13C", The British Journal of Radiology, 76 (2003), S118S127, entire document</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>Aime et al., "Hyperpolarization transfer from parahydrogen to deuterium via carbon-13" Journal of Chemical Physics, Vol. 119, No. 17, 1 November 2003 (01.11.2003), entire document</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 2001/0000726 A1 (ALBERT et al.) 3 May 2001 (03.05.2001), entire document.</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 2002/0043267 A1 (WEILER et al.) 18 April 2002 (18.04.2002), entire document, Abstract.</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 2003/0009126 A1 (ZOLLINGER et al.) 9 January 2003 (09.01.2003), entire document.</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 2004/0171928 A1 (PETERSSON et al.) 2 September 2004 (02.09.2004), entire document.</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 2005/0030026 A1 (PINES et al.) 10 February 2005 (10.02.2005), entire document.</td> <td>1-71</td> </tr> <tr> <td>A</td> <td>US 5,545,396 A (ALBERT et al.) 13 August 1996 (13.08.1996), entire document, col, 9, ln 51-54; 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