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(71) Applicant: **AKARI SYSTEMS, INC.** [US/US]; 859  
Mango Avenue, Sunnyvale, CA 94087 (US).

(72) Inventor: **FEROLITO, Philip, Arnold**; 859 Mango Av-  
enue, Sunnyvale, CA (US).

(74) Agents: **JAFFER, David, H.** et al.; Pillsbury Winthrop  
Shaw Pittman LLP, P.O. Box 10500 - Intellectual Property  
Group, Mclean, VA 22102 (US).

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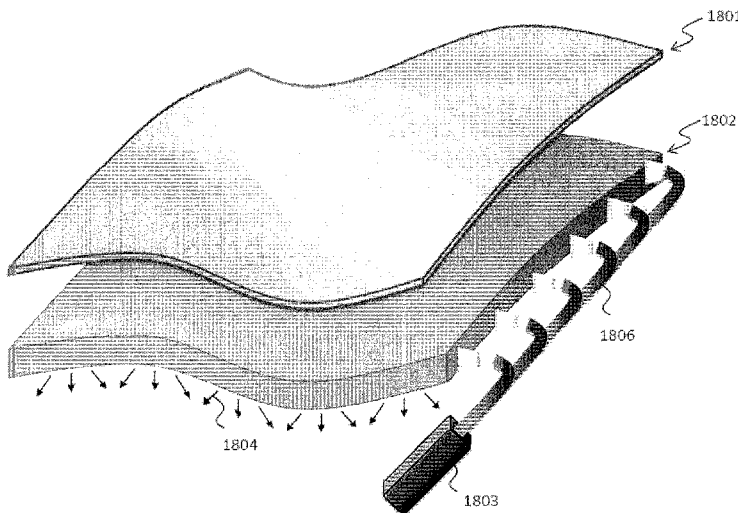


FIG. 20

(57) Abstract: A wearable device for therapeutic irradiation of skin may comprise: a light source optically coupled to a light spreading sheet and electrically coupled to a controller configured for controlling the intensity of light emitted from the light source and the duration of emission of light from the light source during a therapeutic session; a proximity sensor for detecting proximity of the light spreading sheet to the skin, the proximity sensor being attached to the light spreading sheet and electrically coupled to the controller; and a power source electrically coupled to the light source and the controller; wherein the controller is further configured to turn on, and keep turned on for the duration of the therapeutic session, the light source when the proximity sensor detects proximity of the light spreading sheet to the skin. In embodiments the light source may comprise an array of light emitting diodes attached to a substrate.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 15/39827

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - A61N 5/06, A61N 5/067, A61N 5/073, A61N 5/08 (2015.01) CPC - A61N 5/06, A61N 2005/0645 According to International Patent Classification (IPC) or to both national classification and IPC																																											
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC(8)- A61N 5/06, A61N 5/067, A61N 5/073, A61N 5/08 (2015.01) CPC- A61N 5/06, A61N 2005/0645 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IPC(8)- A61N 5/06, A61N 5/067, A61N 5/073, A61N 5/08 (2015.01); CPC- A61N 5/06, A61N 2005/0645; A61N 5/00, A61N 5/0613, A61N 5/0616, A61N 5/0617, A61N 5/0622, A61N 5/0624; USPC: 606/2, 3, 10; 607/88, 89, 90, 91 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Patbase, Google Scholar/Web/Patents; Search terms used: Light, photo, irradiation, therapy, phototherapy, heliotherapy, led, laser, lamp, wear, worn, clothing, accessory, jewelry, bracelet, armband, wristband, cuff, spread, lens, optic, waveguide, fiber, fibre, contact, proximity, distance, sense, detect, monitor, measure, layer,																																											
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <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>X</td> <td>WO 2013/072701 A1 (GRUENEWALD et al.) 23 May 2013 (23.05.2013), pg. 17, ln 12-16; pg. 21, ln 20-pg. 22, ln 9; pg. 24, ln 20-pg. 25, ln 6; pg. 40, ln 28-pg. 41, ln 23; pg. 42, ln 14-21; pg. 42, ln 33-pg. 43, ln 7; pg. 43, ln 24-pg. 44, ln 17; pg. 68, ln 7-18</td> <td>33, 39-41, 44, 47, 53, 61, 64-67</td> </tr> <tr> <td>---</td> <td></td> <td>-----</td> </tr> <tr> <td>Y</td> <td></td> <td>1-3, 5-12, 14-25, 27-32, 34-38, 42, 43, 45, 46, 48-51, 54-60, 62, 63, 68-76</td> </tr> <tr> <td>---</td> <td></td> <td>-----</td> </tr> <tr> <td>A</td> <td></td> <td>4, 13, 26, 52</td> </tr> <tr> <td>Y</td> <td>US 2014/0039379 A1 (ROGERS) 06 February 2014 (06.02.2014), para [0005], [0007], [0025], [0026]</td> <td>1, 3, 12</td> </tr> <tr> <td>Y</td> <td>US 2011/0190749 A1 (MCMILLAN et al.) 04 August 2011 (04.08.2011), para [0064], [0066]</td> <td>1, 2, 5-11, 14-25, 27-32, 58-60, 70-76</td> </tr> <tr> <td>---</td> <td></td> <td>-----</td> </tr> <tr> <td>A</td> <td></td> <td>4, 13, 26</td> </tr> <tr> <td>Y</td> <td>US 2007/0129776 A1 (ROBINS et al.) 07 June 2007 (07.06.2007), para [0017], [0021], [0098]-[0099], [0118], [0126]-[0127], [0198], [0200]-[0201], [0204]-[0205]</td> <td>2, 7-9, 15, 24, 25, 30-32, 34, 35, 37, 38, 54-56, 62, 63, 71, 73</td> </tr> <tr> <td>---</td> <td></td> <td>-----</td> </tr> <tr> <td>A</td> <td></td> <td>26</td> </tr> <tr> <td>Y</td> <td>US 2012/0116485 A1 (BURGMANN) 10 May 2012 (10.05.2012), para [0053], [0055]</td> <td>36</td> </tr> </tbody> </table>		Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	WO 2013/072701 A1 (GRUENEWALD et al.) 23 May 2013 (23.05.2013), pg. 17, ln 12-16; pg. 21, ln 20-pg. 22, ln 9; pg. 24, ln 20-pg. 25, ln 6; pg. 40, ln 28-pg. 41, ln 23; pg. 42, ln 14-21; pg. 42, ln 33-pg. 43, ln 7; pg. 43, ln 24-pg. 44, ln 17; pg. 68, ln 7-18	33, 39-41, 44, 47, 53, 61, 64-67	---		-----	Y		1-3, 5-12, 14-25, 27-32, 34-38, 42, 43, 45, 46, 48-51, 54-60, 62, 63, 68-76	---		-----	A		4, 13, 26, 52	Y	US 2014/0039379 A1 (ROGERS) 06 February 2014 (06.02.2014), para [0005], [0007], [0025], [0026]	1, 3, 12	Y	US 2011/0190749 A1 (MCMILLAN et al.) 04 August 2011 (04.08.2011), para [0064], [0066]	1, 2, 5-11, 14-25, 27-32, 58-60, 70-76	---		-----	A		4, 13, 26	Y	US 2007/0129776 A1 (ROBINS et al.) 07 June 2007 (07.06.2007), para [0017], [0021], [0098]-[0099], [0118], [0126]-[0127], [0198], [0200]-[0201], [0204]-[0205]	2, 7-9, 15, 24, 25, 30-32, 34, 35, 37, 38, 54-56, 62, 63, 71, 73	---		-----	A		26	Y	US 2012/0116485 A1 (BURGMANN) 10 May 2012 (10.05.2012), para [0053], [0055]	36
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Date of the actual completion of the international search 10 September 2015 (10.09.2015)	Date of mailing of the international search report <b>19 OCT 2015</b>																																										
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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