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(71) Applicant: JAY, Harvey, H. [US/US]; 45 East 62nd Street, New York, NY 10021 (US).

(74) Agent: SUDOL, Neil, R.; Coleman Sudol Sapone, P.C., 714 Colorado Avenue, Bridgeport, CT 06605-1601 (US).

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(54) Title: AIR TREATMENT APPARATUS

(57) Abstract: A hand held device generates a predetermined number of pulses of light having a predetermined electromagnetic spectrum, a predetermined duration, a predetermined interpulse interval, and a predetermined total energy. The pulse sequence is delivered to a skin surface to stimulate hair growth by energizing the hair follicles. The light may be absorbed by endogenous chromophores of the dermal tissues and/or by exogneous chromophores delivered to the dermal tissues. The device is utilizable to periodically apply the pulses of light to the selected skin surface at total energy levels per session that are much lower than the energies used in hair removal treatments.

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A CLASSIFICATION OF SUBJECT MATTER					
PC(7) : A 61 F 7/00					
US CL : 607/090 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) U.S.: 607/090, 088; 128/898					
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.	
X	US 2003/0004499 A1 (MCDANIEL) 02 June 2003 (02.01.2003), Para 0097-0098, 0152,			1-5, 7-10	
	0015, 0014.				
x	US 6,251,100 B1 (FLOCK et al) 26 June 2001 (26.06.2001), Col. 28, lines34, Fig 2, Col.			13-16	
 Y	20, lines 40-50.			6	
Y	US 6,050,990 A (TANKOVICH et al) 18 April 2000 (18.04.2000), Col. 18 lines 35-40.			11	
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Further	documents are listed in the continuation of Box C.		See patent family annex.		
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P.O. Box 1450		Telephone No. None			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230					
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