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(71) Applicant (for all designated States except US):  
**SEETHROUGH LTD.** [IL/IL]; 40 Sokolov Street,  
Hapiramida Building, 47235 Ramat Hasharon (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GROSSINGER, Nadav** [IL/IL]; 19 Yaacov Street, 76262 Rechovot (IL).  
**BENNY, Eli** [IL/IL]; 4 Yitzhak Sade Street, 75236

Rishon-lezion (IL). **GROSSINGER, Israel** [IL/IL]; 19  
Yaacov Street, 76262 Rechovot (IL). **SCHERTZ, Avigdor**  
[IL/IL]; 4 Tor Haaviv Street, 76329 Rechovot (IL).

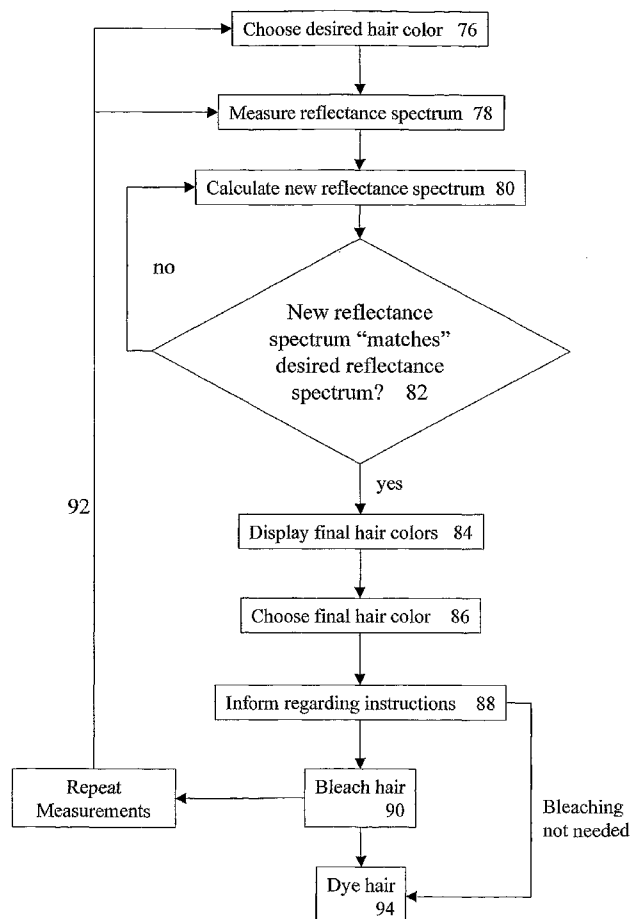
(74) Agent: **G. E. EHRLICH (1995) LTD.**; 11 Menachem Be-  
gin Street, 52 521 Ramat Gan (IL).

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(54) Title: HAIR COLORING SYSTEM



(57) Abstract: A system for determining hair color treatment, including a processor. The processor is configured for: receiving as input an initial spectrum of a sample of hair, the initial spectrum having a wavelength range; calculating a new spectrum of the hair due to a hypothetical hair color treatment as a direct function of the initial spectrum; and outputting data to a device, the data being based upon the step of calculating. The system also includes a spectrum analyzer configured for producing the initial spectrum and a display device configured for displaying a color and hair color treatment instructions based on the data. An alternate embodiment of the invention includes a color mixing device configured for dispensing a hair color treatment based on the data.

WO 2006/090363 A1



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