US005620980A

United States Patent [19]

Samour

[11] **Patent Number: 5,620,980**

[45] **Date of Patent: Apr. 15, 1997**

[54] **METHOD FOR TREATING HAIR LOSS**

[75] Inventor: **Carlos M. Samour**, Newport, R.I.

[73] Assignee: **MacroChem Corporation**, Lexington, Mass.

[21] Appl. No.: **392,231**

[22] Filed: **Feb. 22, 1995**

[51] **Int. Cl.**[6] **A61K 31/505**; A61K 31/335

[52] **U.S. Cl.** **514/256**; 514/452; 514/467

[58] **Field of Search** 514/256, 452, 514/467

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,085,222	4/1978	Rhodes et al. .
4,139,619	2/1979	Chidsey, III et al. .
4,596,812	6/1986	Chidsey, III et al. .
4,861,764	8/1989	Samour et al. .

FOREIGN PATENT DOCUMENTS

2078732	1/1982	United Kingdom .
9216236	10/1992	WIPO .

OTHER PUBLICATIONS

Diani, et al., Skin Pharmacology (Mar. 1994).
Capozza, Chemical Abstracts, 88:513558x (1978).
Schaefer, et al., Chemical Abstracts, 97:38946d (1982).
Friedman, R., "Upjohn Enhances Hair Regeneration", Bio-World Today, p. 2 (Sep. 5, 1991).
Marty, et al., "Dioxolane Derivatives: A New Class of Percutaneous Absorption Enhancer", Center for Bio–Pharmaceutical Sciences, (1989).
Chew, et al. (1993), Abstract for the IIS, Sixth Central US Meeting, May 13–14, 1993.
Slatter, et al. (1993), Abstract for the ISSX Sep. 1993 Meeting.
MacroChem Press Release, May 6, 1994.
MacroChem Press Release, Oct. 8, 1992.

Primary Examiner—Zohreh Fay
Attorney, Agent, or Firm—Sherman and Shalloway

[57] **ABSTRACT**

The combination of minoxidil and 2-n-nonyl-1,3-dioxolane is effective in promoting hair growth when applied once daily.

1 Claim, 1 Drawing Sheet