United States Patent [19]

Knighton

[11] **Patent Number: 4,957,742**

[45] **Date of Patent: Sep. 18, 1990**

[54] **METHOD FOR PROMOTING HAIR GROWTH**

[75] Inventor: **David R. Knighton**, Hudson, Wis.

[73] Assignee: **Regents of the University of Minnesota**, Minneapolis, Minn.

[21] Appl. No.: **295,406**

[22] Filed: **Jan. 10, 1989**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 39,776, Apr. 15, 1987, which is a continuation of Ser. No. 786,206, Oct. 10, 1985, abandoned, which is a continuation-in-part of Ser. No. 676,471, Nov. 29, 1984, abandoned.

[51] **Int. Cl.**[5] **A61K 35/14**

[52] **U.S. Cl.** **424/532**; 514/2; 514/880

[58] **Field of Search** 514/2, 880; 424/101

[56] **References Cited**

PUBLICATIONS

Scher et al.—Chem. Abst., vol. 102, (1985), p. 161,144q.

Primary Examiner—Sam Rosen

Attorney, Agent, or Firm—Dorsey & Whitney

[57] **ABSTRACT**

Platelet enriched plasma is produced from blood. The platelets are activated by thrombin which causes the release of platelet-derived growth and angiogenesis factors. A carrier such as a microcrystalline collagen is added to produce a wound-treating salve. The composition is applied directly to wounds and initiates healing in nonhealing wounds as well as accelerating normal wound-healing by increasing vascularization, stimulating fibroblast mitosis and migration, and increasing collagen synthesis by fibroblasts. The composition is also applied to tissue to facilitate the growth of hair.

11 Claims, No Drawings