United States Patent [19]

Ding et al.

[54] EMULSION EYE DROP FOR ALLEVIATION OF DRY EYE RELATED SYMPTOMS IN DRY EYE PATIENTS AND/OR CONTACT LENS WEARERS

- [75] Inventors: Shulin Ding, Irvine; Orest Olejnik, Trabuco Canyon; Brenda L. Reis, Costa Mesa, all of Calif.
- [73] Assignee: Allergan, Irvine, Calif.
- [21] Appl. No.: 09/008,924
- [22] Filed: Jan. 20, 1998
- [51] Int. Cl.⁶ A61K 47/12; A61K 47/14;
- A61K 47/34 [52] U.S. Cl. 514/785; 514/786; 514/912;

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US005981607A

[11] Patent Number: 5,981,607

[45] **Date of Patent:** Nov. 9, 1999

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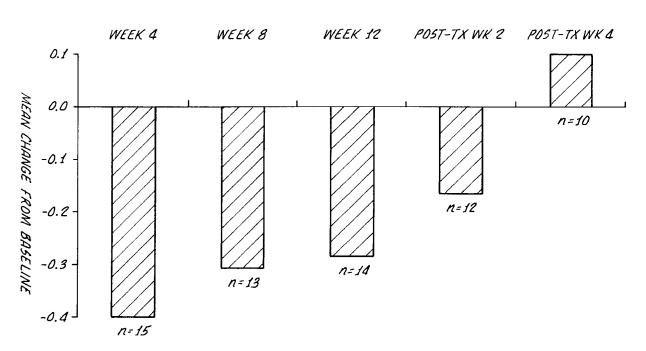
Diagnosis and Management of Dry Eye and Ucular Surface Disorders: OPH Clinic of N.A. vol. 3, No. 4, pp. 575–594, Dec. 1990.

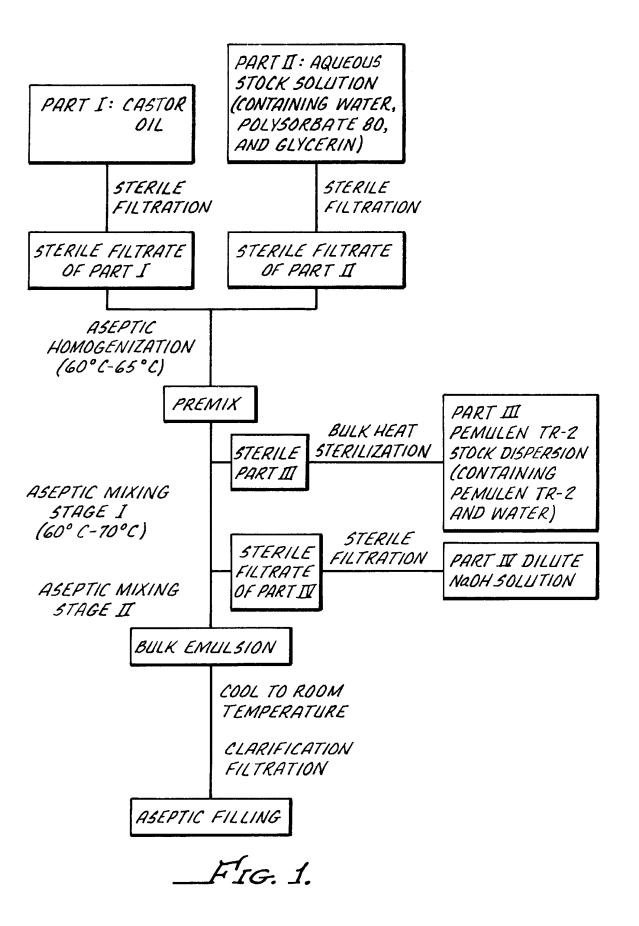
Primary Examiner—Jeffrey E. Russel Attorney, Agent, or Firm—Walter A. Hackler

[57] ABSTRACT

An eye drop composition for alleviation of dry eye related symptoms in dry eye patients and contact lens wearers includes an emulsion of a higher fatty acid glyceride, polysorbate 80 and an emulsion stabilizing amount of Pemulen® in water suitable for topical application to ocular tissue.

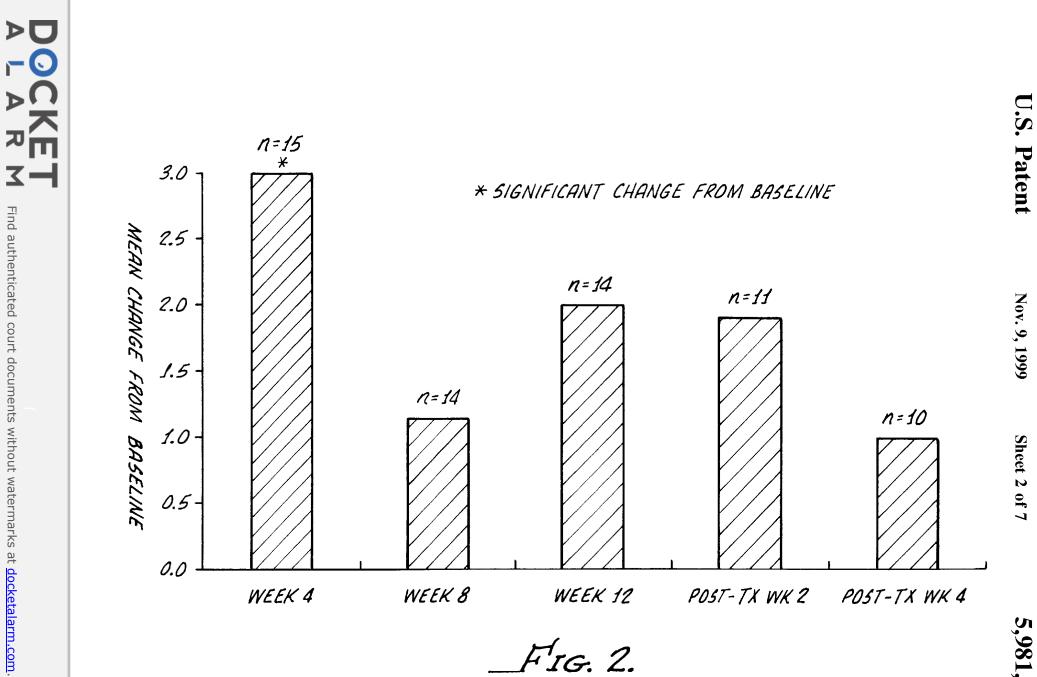
4 Claims, 7 Drawing Sheets





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_FIG. 3.

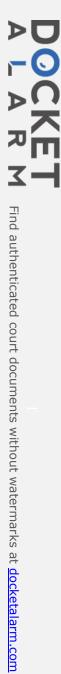
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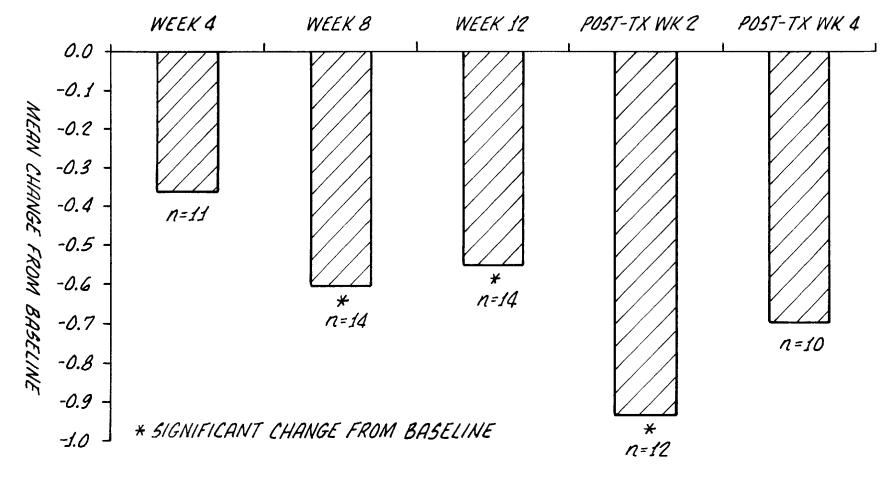


FIG. 4.

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