

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

5,411,952 5/1995 Kaswan ..... 514/11  
5,474,979 12/1995 Ding et al. .... 514/11

[75] Inventors: Shulin Ding, Irvine; Orest Olejnik, Trabuco Canyon; Brenda L. Reis, Costa Mesa, all of Calif.

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[73] Assignee: Allergan, Irvine, Calif.

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[21] Appl. No.: 09/008,924

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

[22] Filed: Jan. 20, 1998

[51] Int. Cl.<sup>6</sup> ..... A61K 47/12; A61K 47/14; A61K 47/34

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Attorney, Agent, or Firm—Walter A. Hackler

[52] U.S. Cl. .... 514/785; 514/786; 514/912; 514/915; 514/941; 514/943; 514/975

[58] Field of Search ..... 514/9, 11, 178, 514/179, 180, 181, 420, 625, 627, 784, 785, 786, 912, 913, 914, 915, 941, 943, 975

[57] ABSTRACT

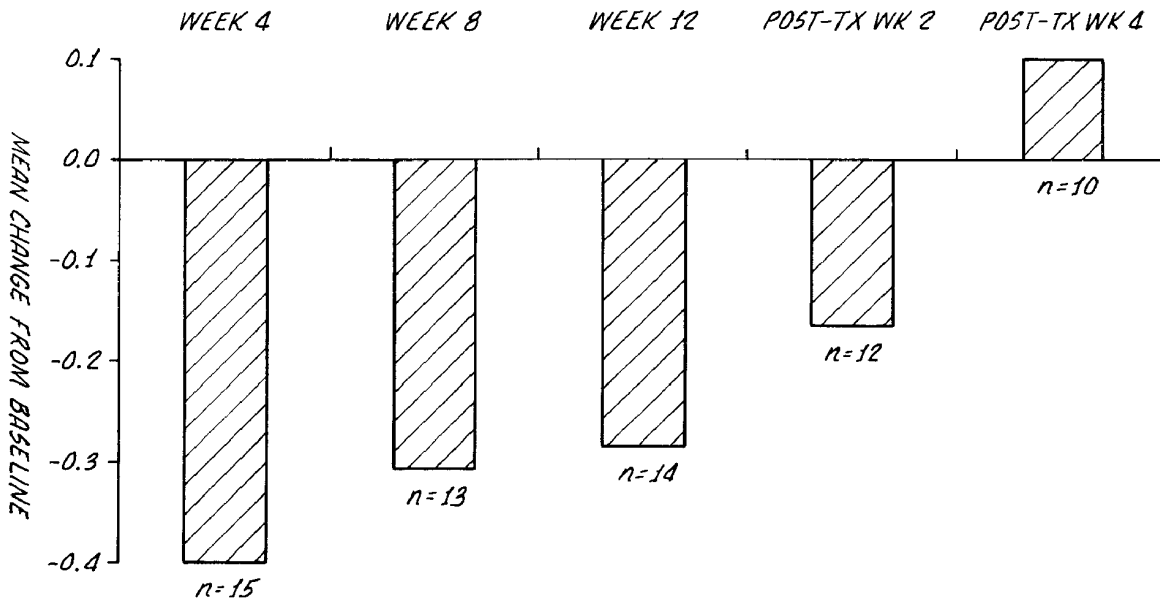
An eye drop composition for alleviation of dry eye related symptoms in dry eye patients and contact lens wearers includes an emulsion of a higher fatty acid glyceride, polysorbate 80 and an emulsion stabilizing amount of Pemulen® in water suitable for topical application to ocular tissue.

[56] References Cited

U.S. PATENT DOCUMENTS

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4 Claims, 7 Drawing Sheets



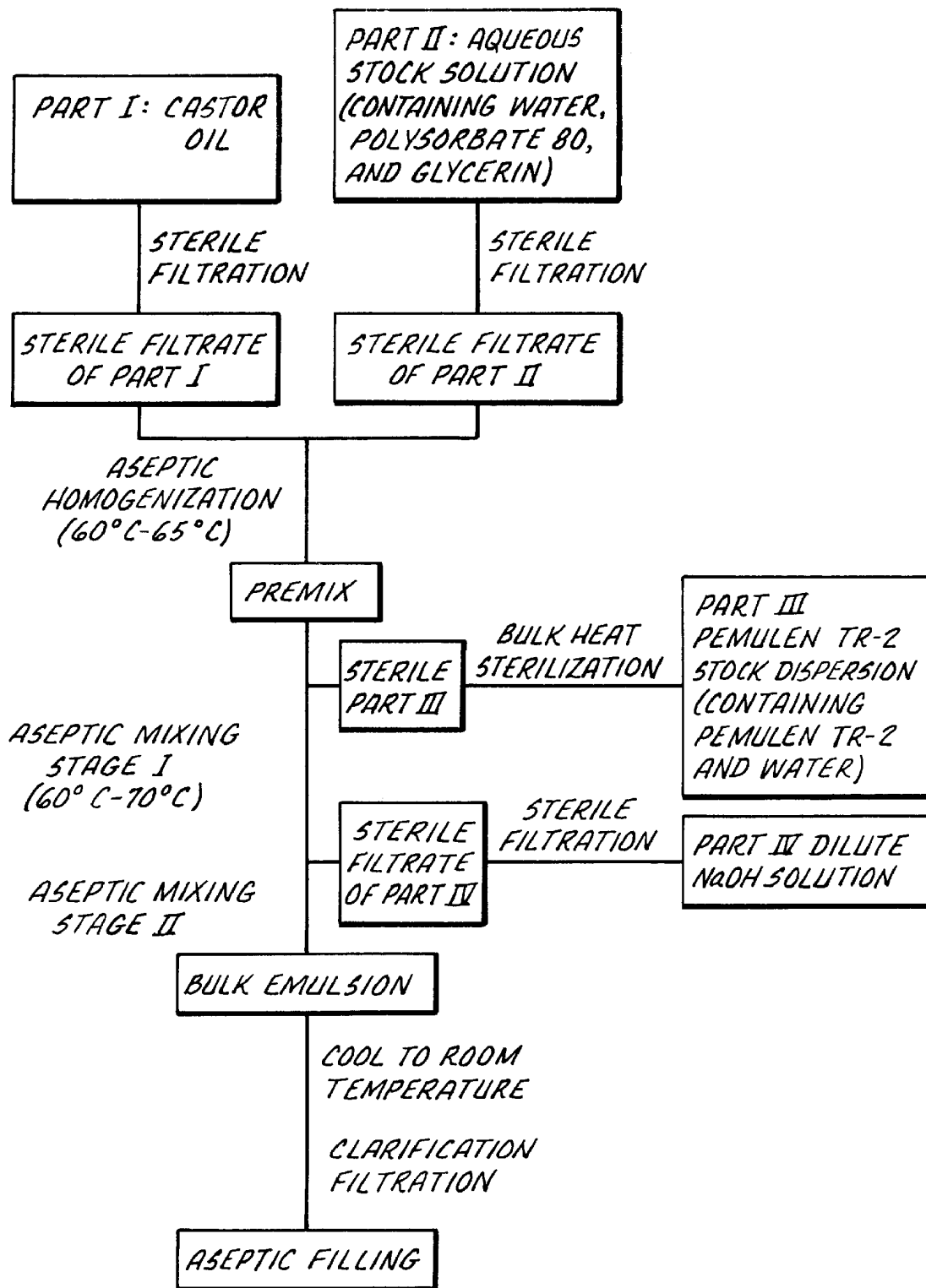
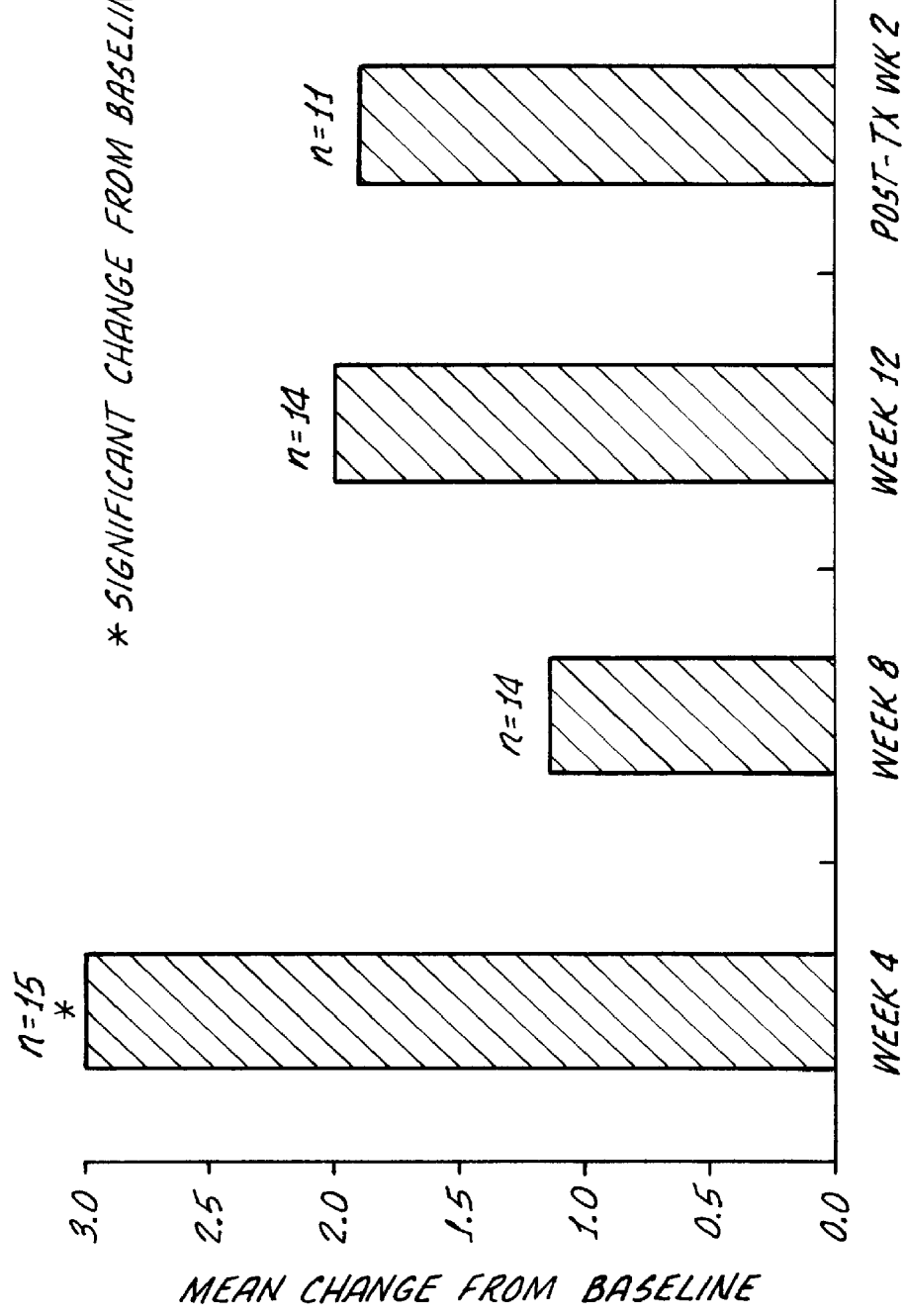
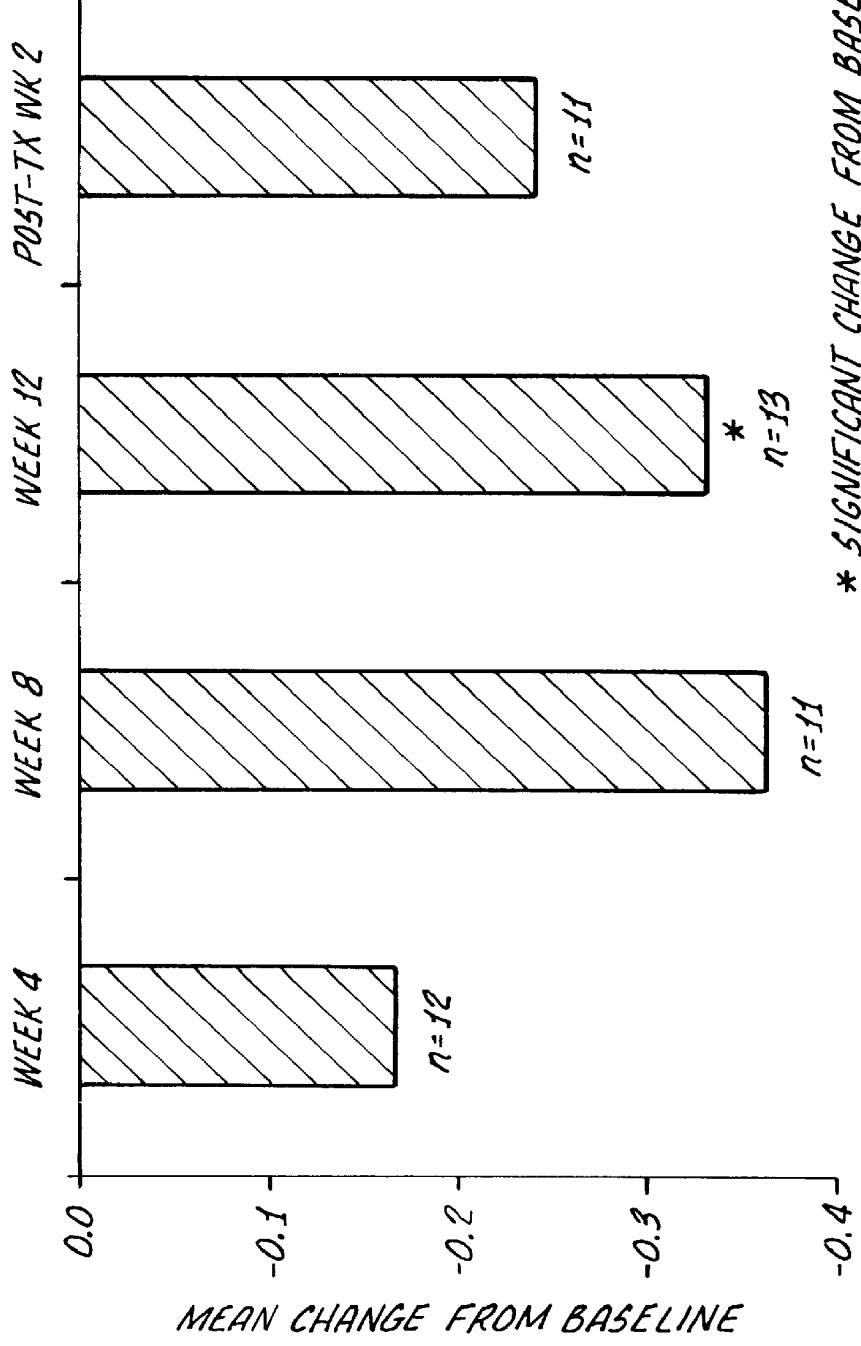


FIG. 1.



*FIG. 2.*



\* SIGNIFICANT CHANGE FROM BASELINE

FIG. 3.

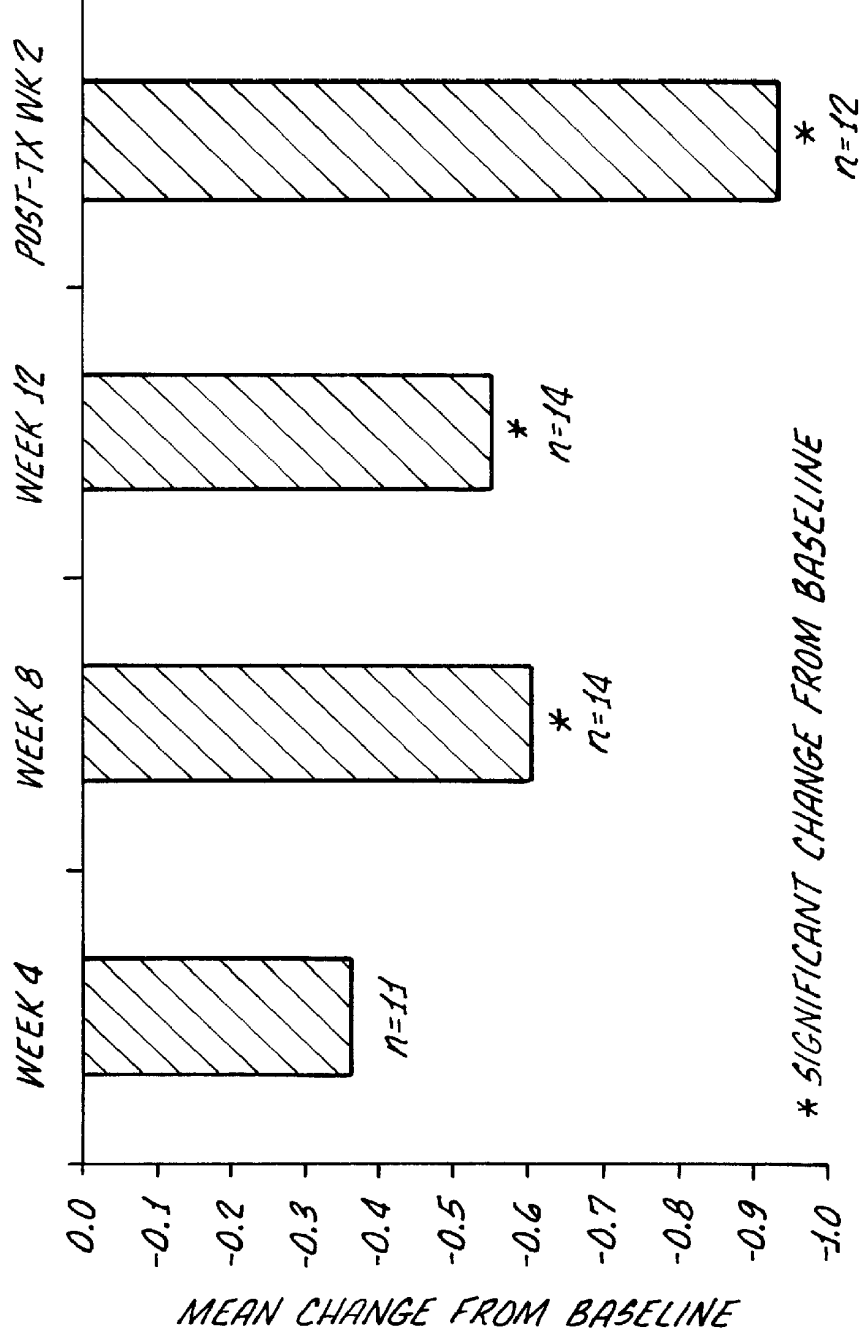


FIG. 4.

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