

United States Patent [19]**Ding et al.**[11] **Patent Number:** **5,981,607**[45] **Date of Patent:** **Nov. 9, 1999**

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

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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.

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[22] **Filed:** **Jan. 20, 1998**

[51] **Int. Cl.**⁶ **A61K 47/12**; A61K 47/14; A61K 47/34

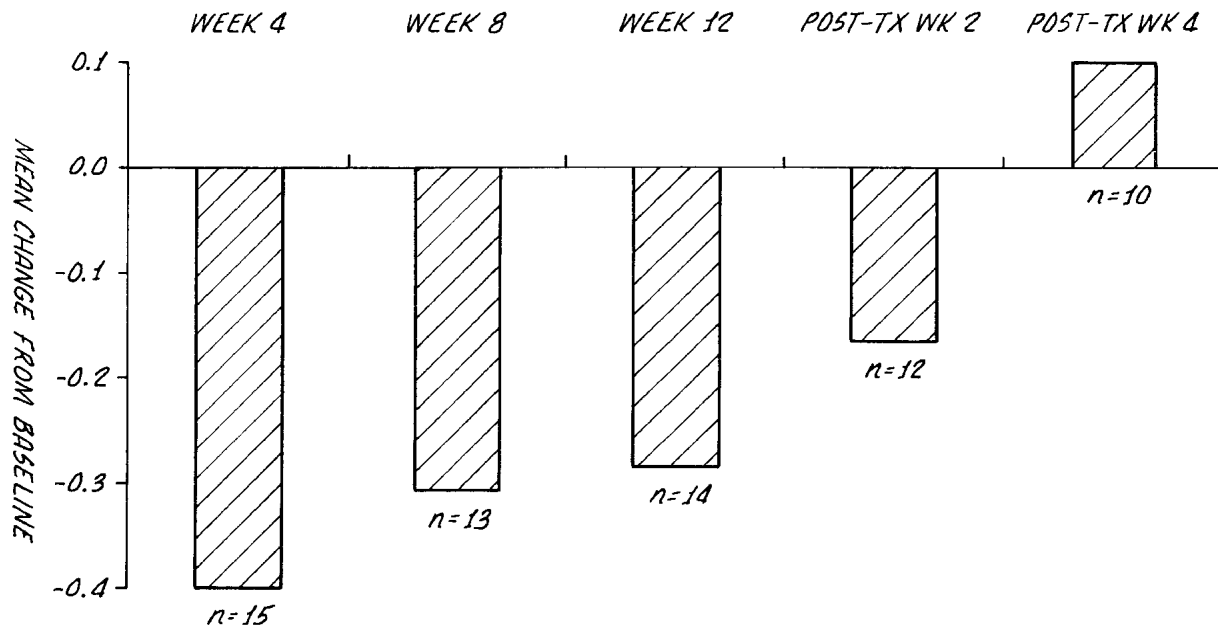
[52] **U.S. Cl.** **514/785**; 514/786; 514/912; 514/915; 514/941; 514/943; 514/975

[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

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4 Claims, 7 Drawing Sheets



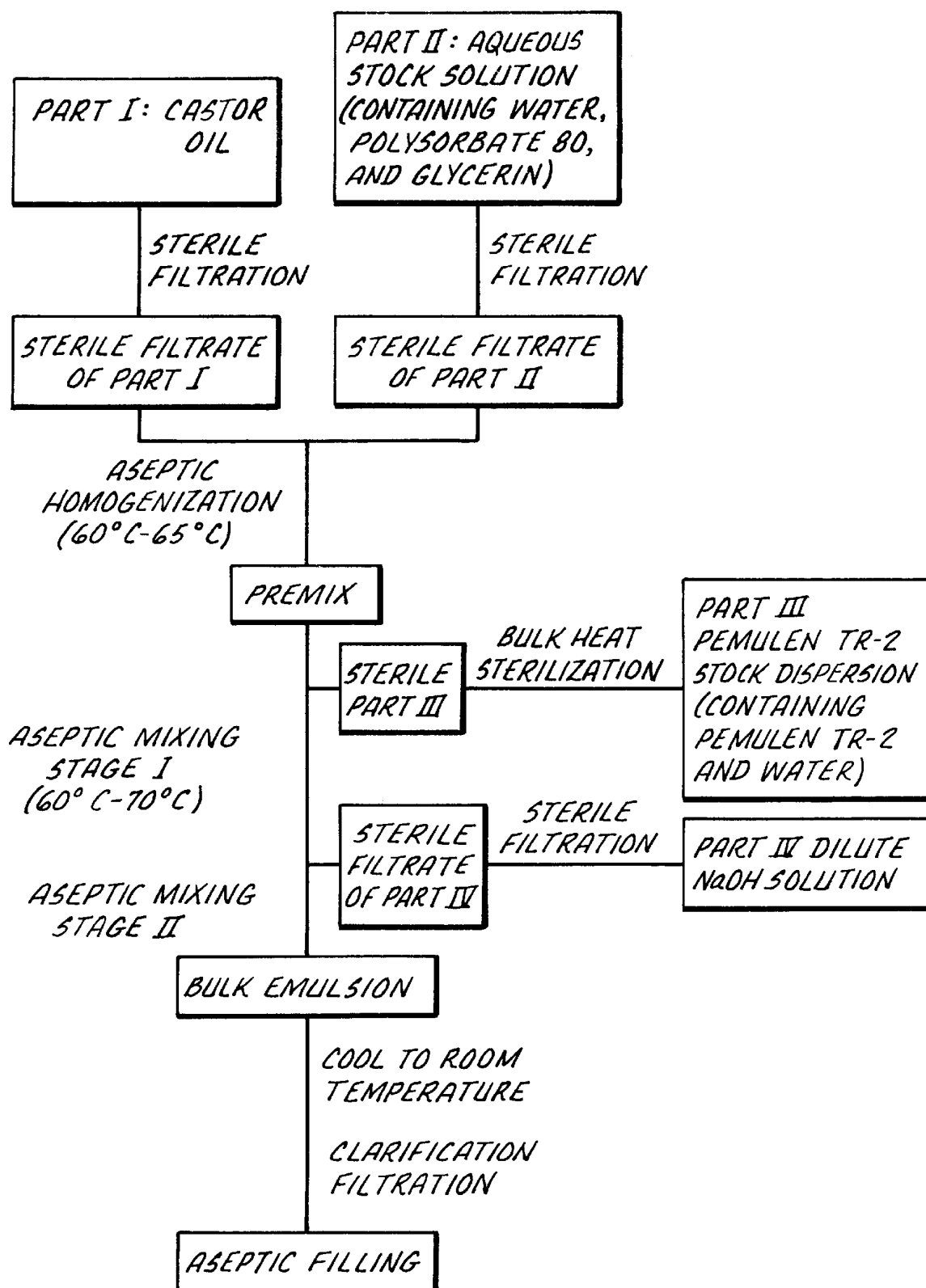


FIG. 1.

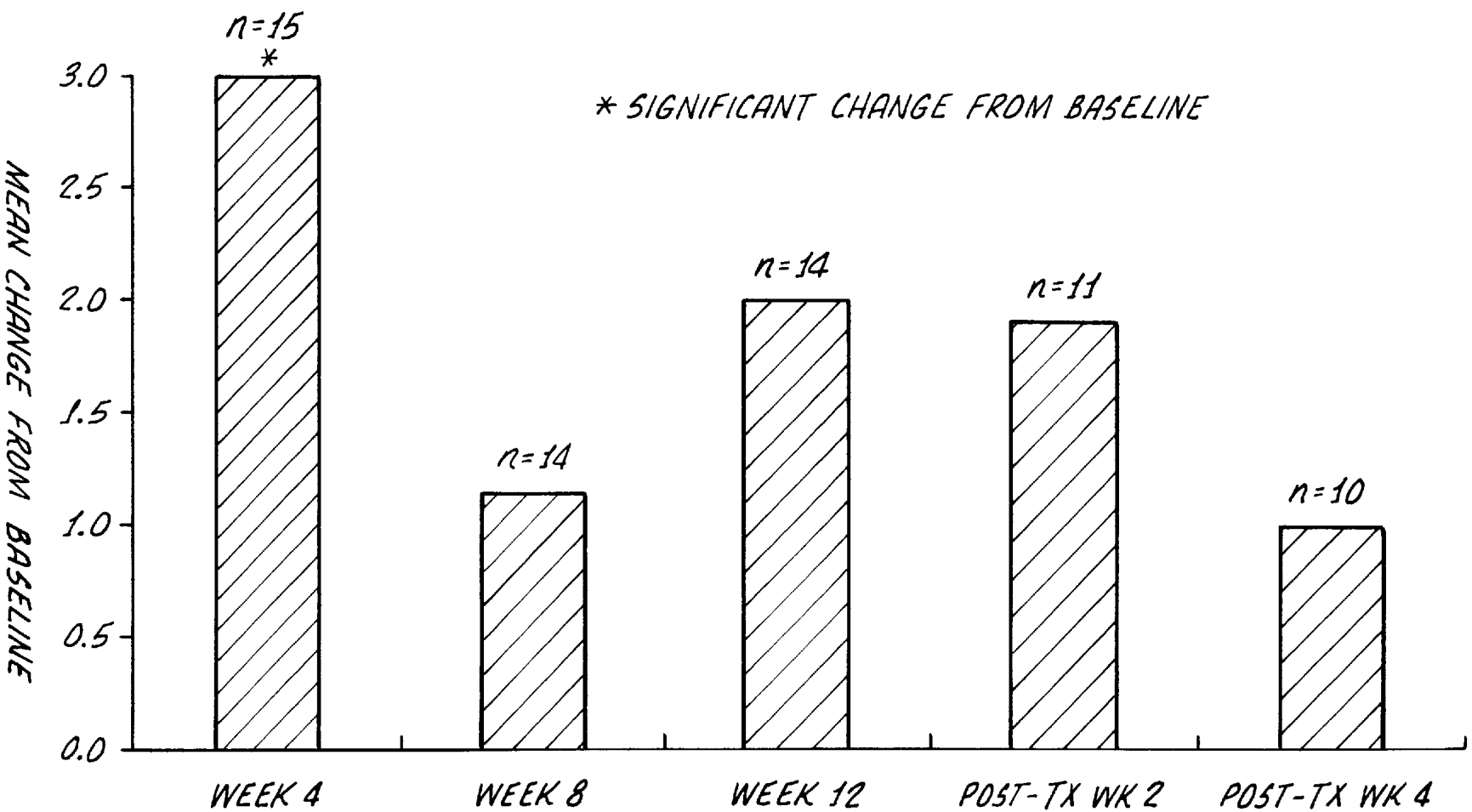
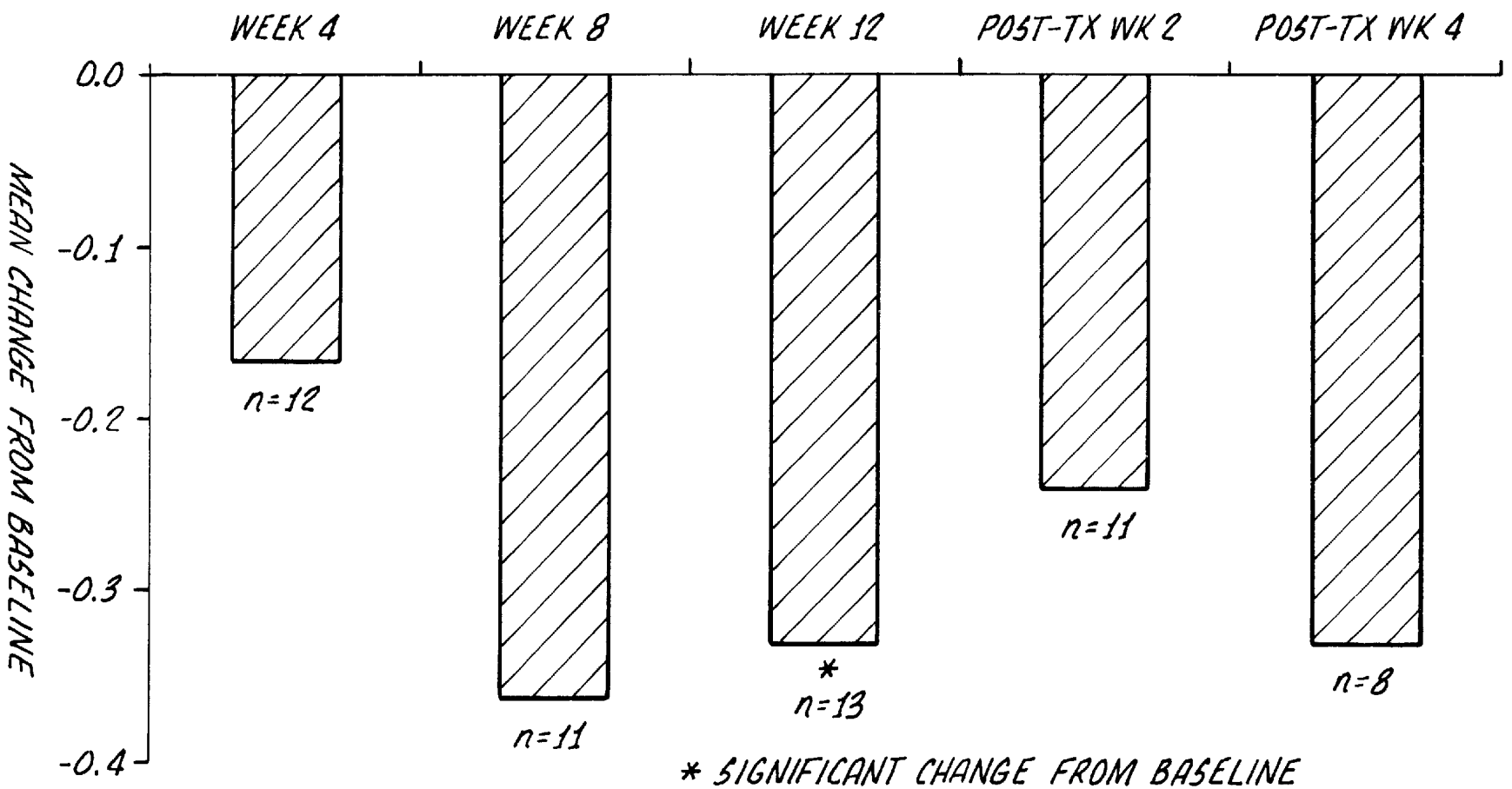
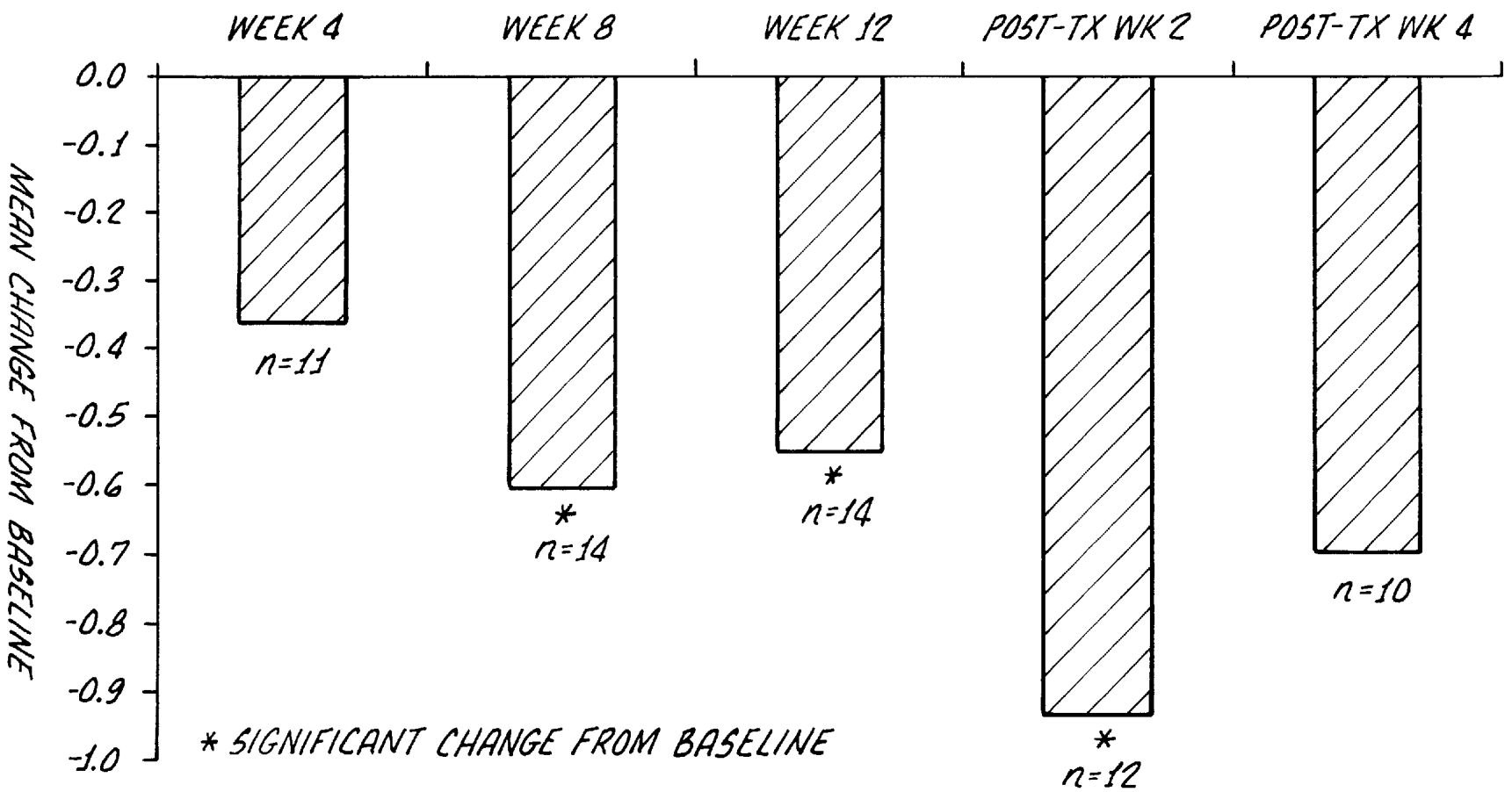


FIG. 2.

*FIG. 3.*

FIG. 4.



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