

(12) **United States Patent**
Kim et al.

(10) **Patent No.:** **US 6,284,727 B1**
(45) **Date of Patent:** **Sep. 4, 2001**

(54) **PROLONGED DELIVERY OF PEPTIDES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **08/472,349**

(22) Filed: **Jun. 7, 1995**

Related U.S. Application Data

(63) Continuation of application No. 08/181,655, filed on Jan. 25, 1994, now abandoned, which is a continuation-in-part of application No. 08/044,133, filed on Apr. 7, 1993, now abandoned.

(51) **Int. Cl.**⁷ **A61K 38/00**

(52) **U.S. Cl.** **514/12; 530/324**

(58) **Field of Search** 514/12; 530/324

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(74) *Attorney, Agent, or Firm*—Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **ABSTRACT**

There are disclosed methods for the treatment of non-insulin dependent diabetes mellitus in a mammal comprising the prolonged administration of GLP-1 (7-37), and related peptides. Also disclosed are compositions to prolong the administration of the peptides.

37 Claims, 10 Drawing Sheets

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FIG. 1

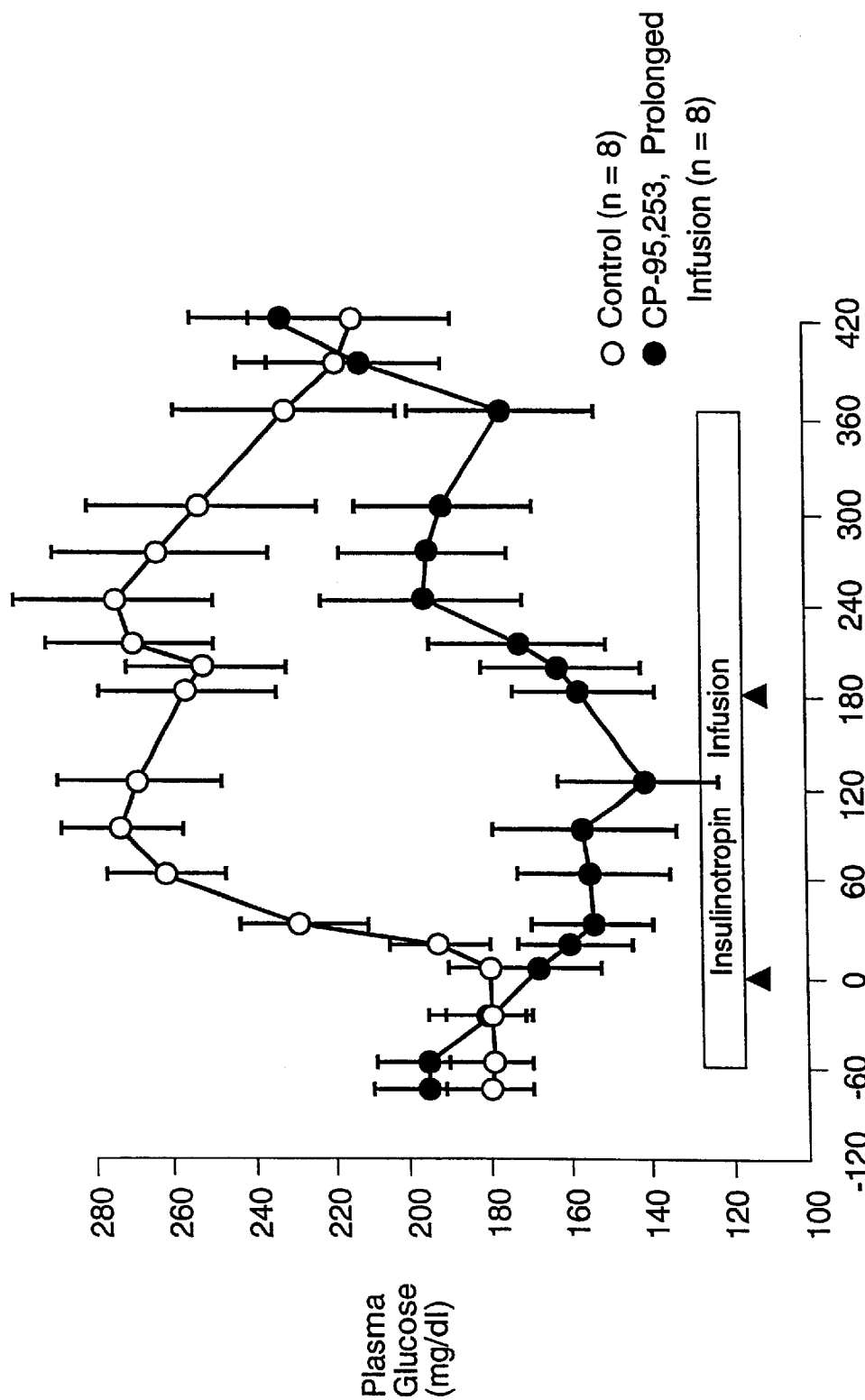


FIG. 2

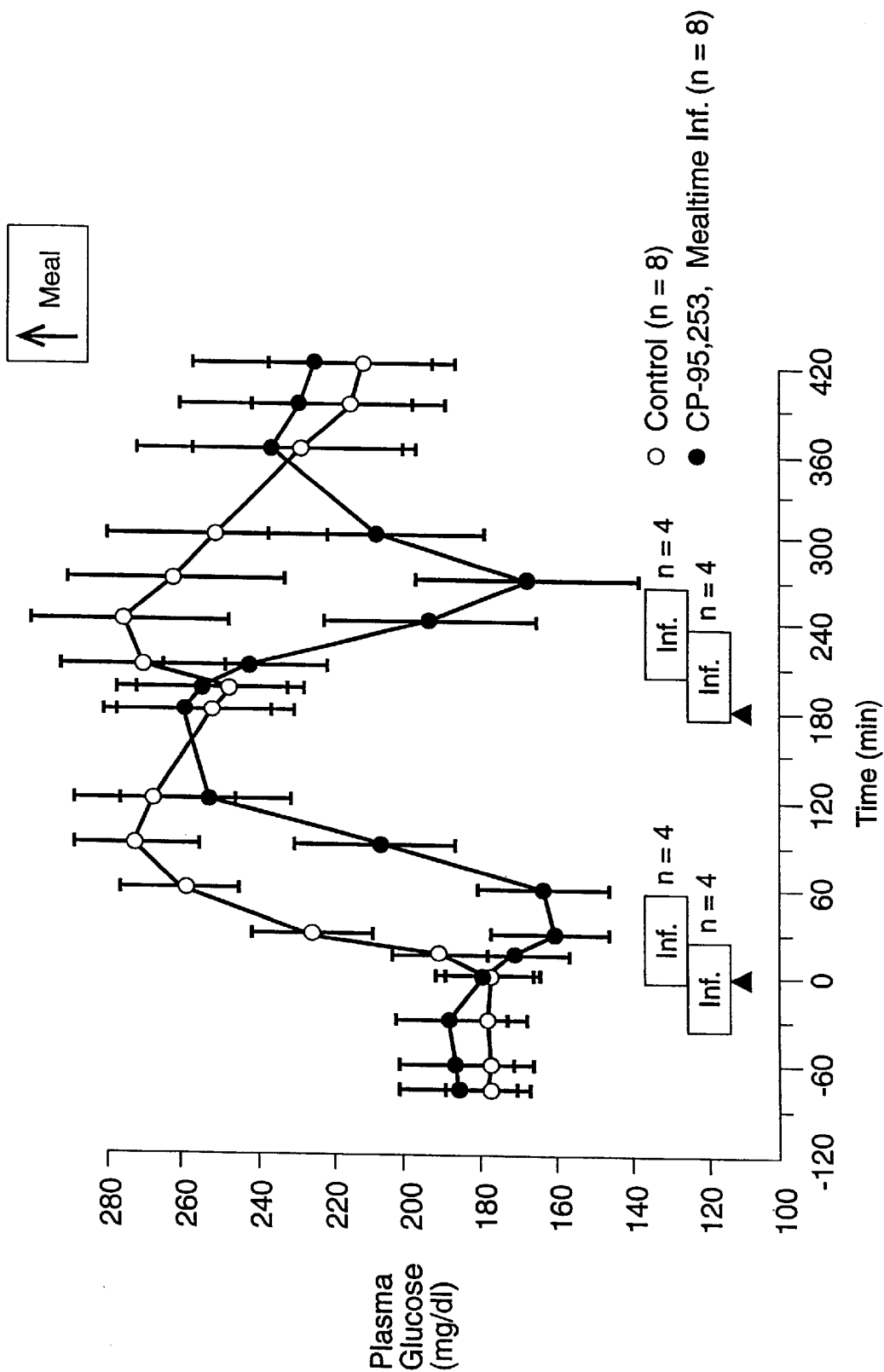
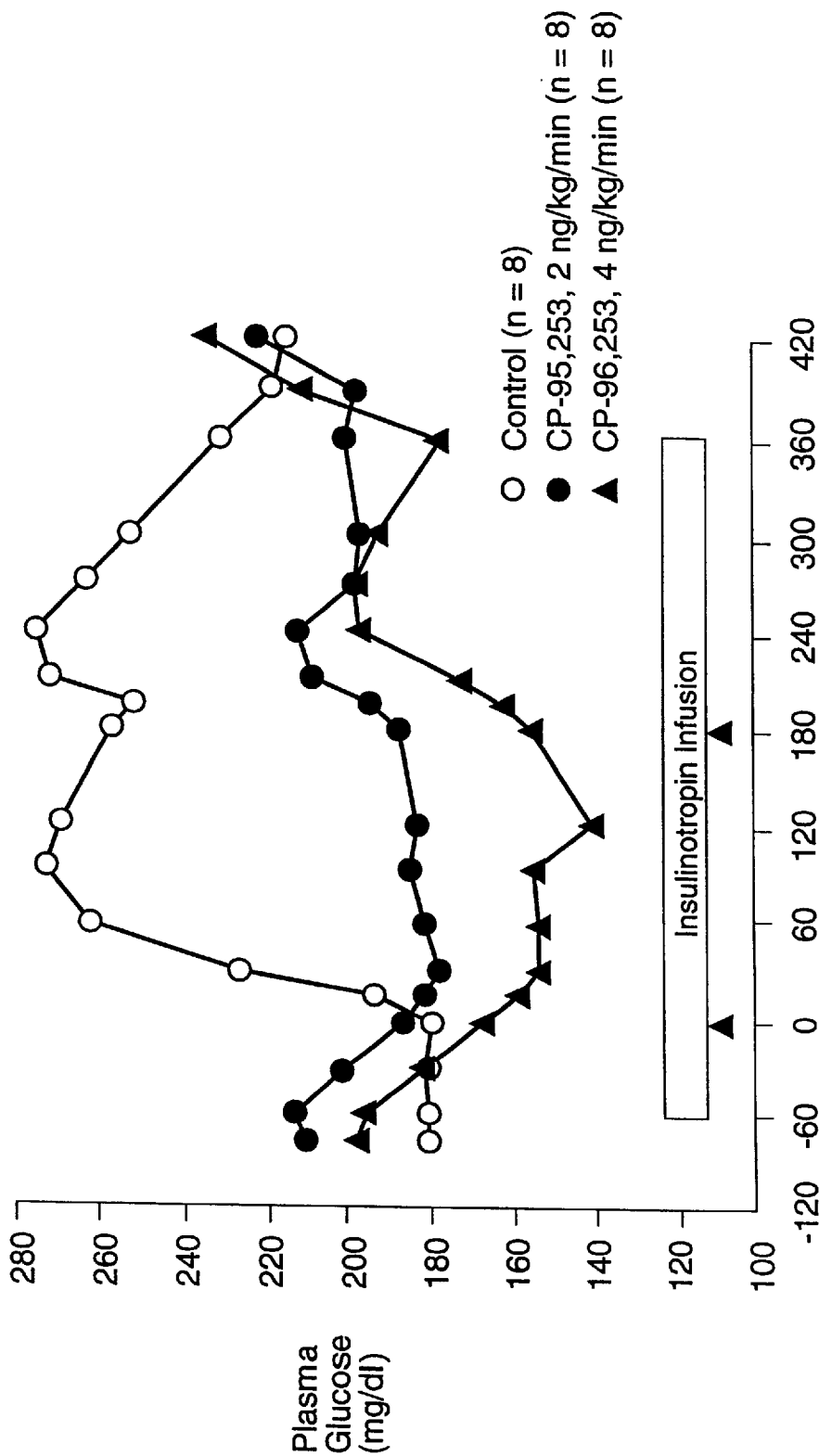


FIG. 3



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