

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

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(54) **PROLONGED DELIVERY OF PEPTIDES**

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**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.**<sup>7</sup> ..... **A61K 38/00**

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

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

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(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

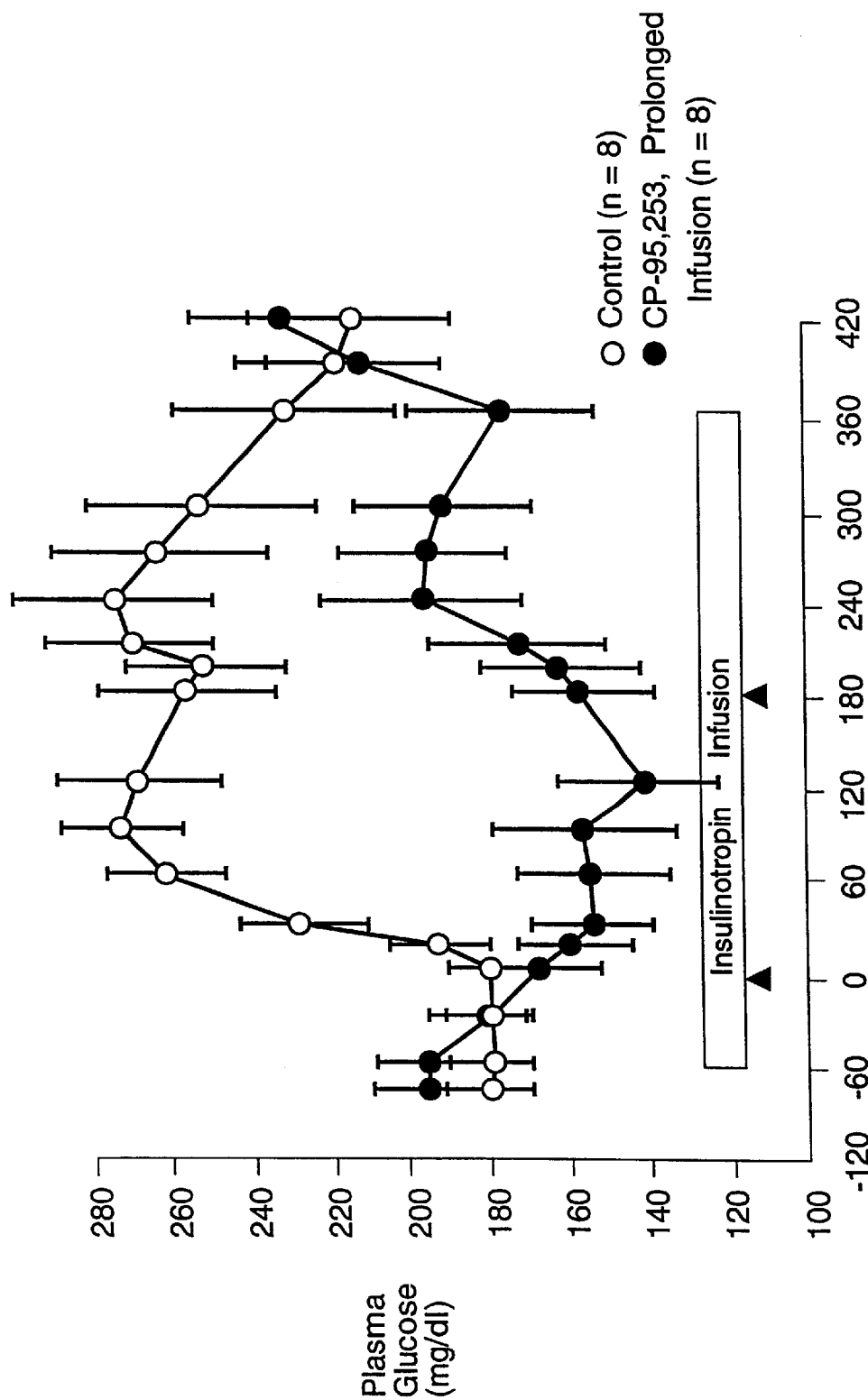


FIG. 2

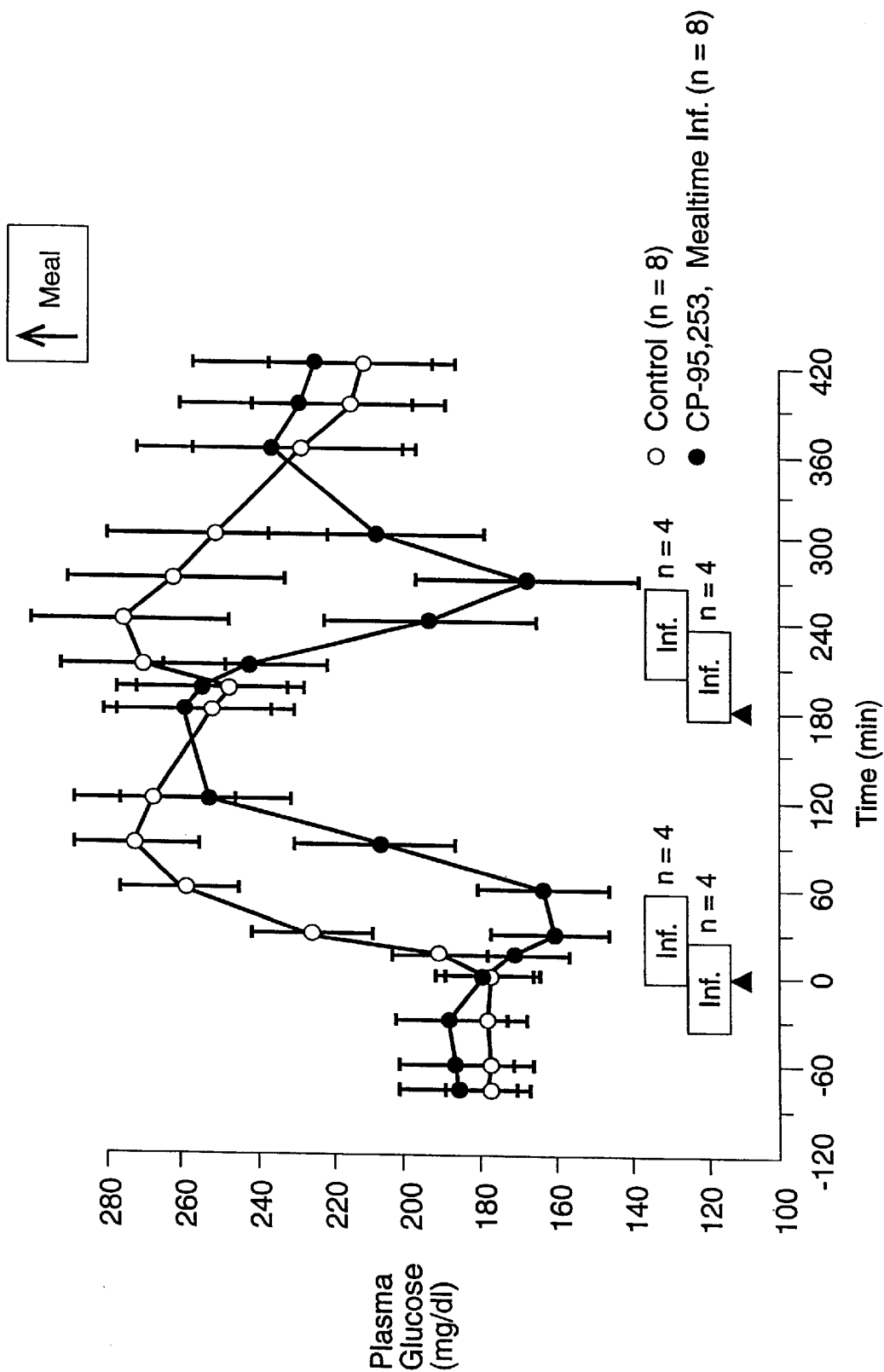
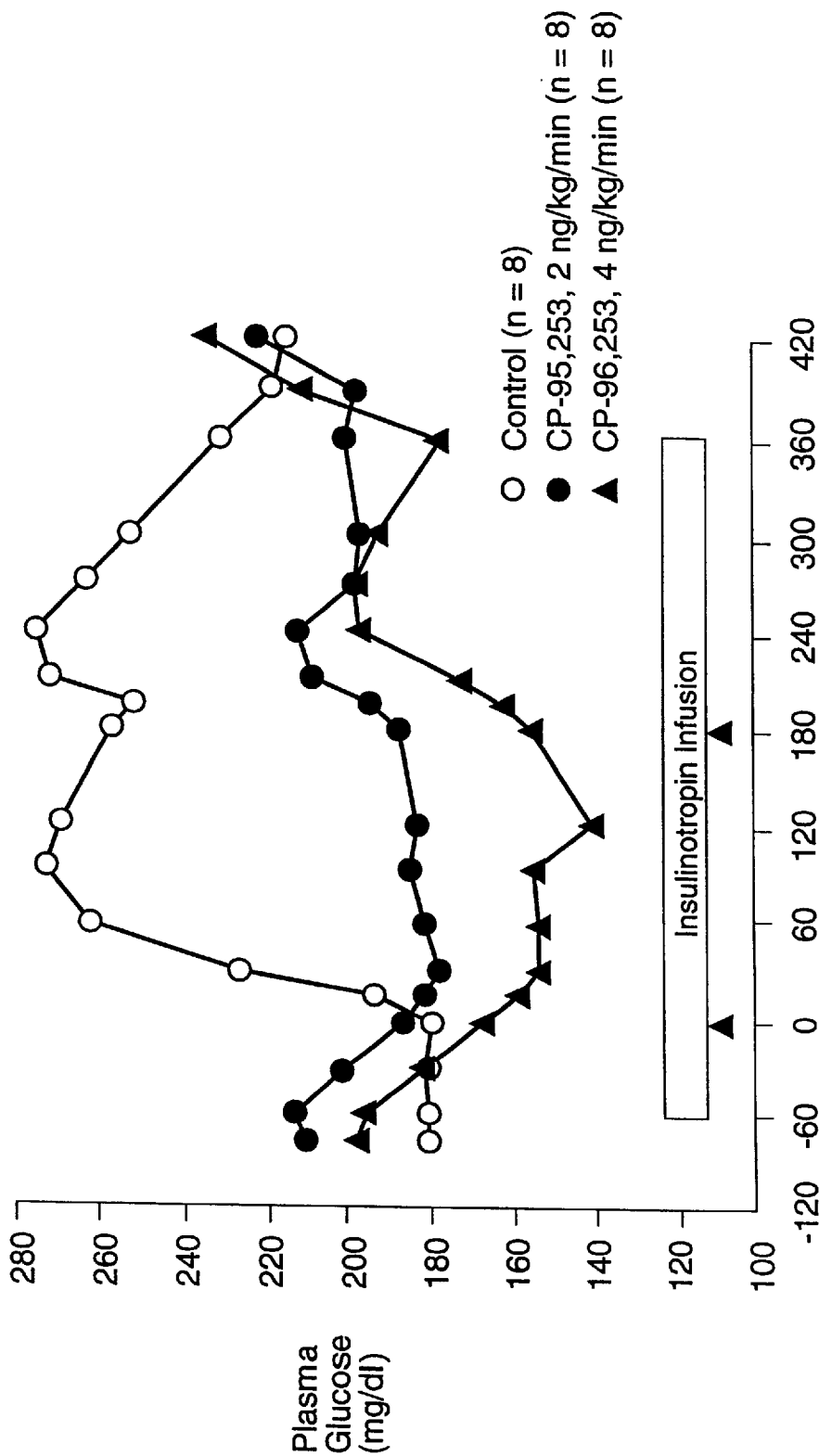


FIG. 3



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