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(54) **INSERTION DEVICE FOR AN INSERTION SET AND METHOD OF USING THE SAME**

Publication Classification

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(51) **Int. Cl.⁷** **A61M 5/20**
(52) **U.S. Cl.** **604/136**

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(57) **ABSTRACT**

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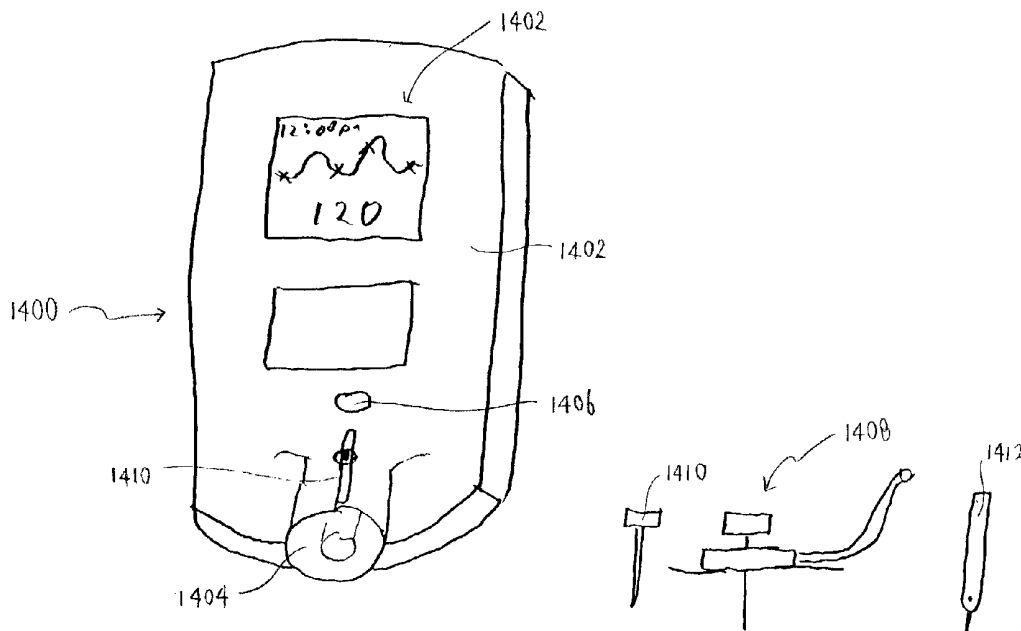
An insertion device and insertion set. The insertion device for inserting at least a portion of at least one piercing member of an insertion set through the skin of a patient includes a device housing, a carrier body and a driver. The carrier body is slidably received within the device housing for movement between an advanced position and a retracted position. The carrier body also includes a receiving structure to support the insertion set in a position with the at least one piercing member oriented for insertion through the skin of the patient at a predetermined or variable angle relative to the skin of the patient upon movement of the carrier body from the retracted position to the advanced position. The driver is operatively coupled between the device housing and the carrier body to urge the carrier body from the retracted position toward the advanced position to place at least a portion of the at least one piercing member of the insertion set thorough the skin of the patient to install the insertion set to the patient. The receiving structure of the carrier body is removable from the insertion set while maintaining the installation of the insertion set to the patient.

(21) Appl. No.: **10/314,653**

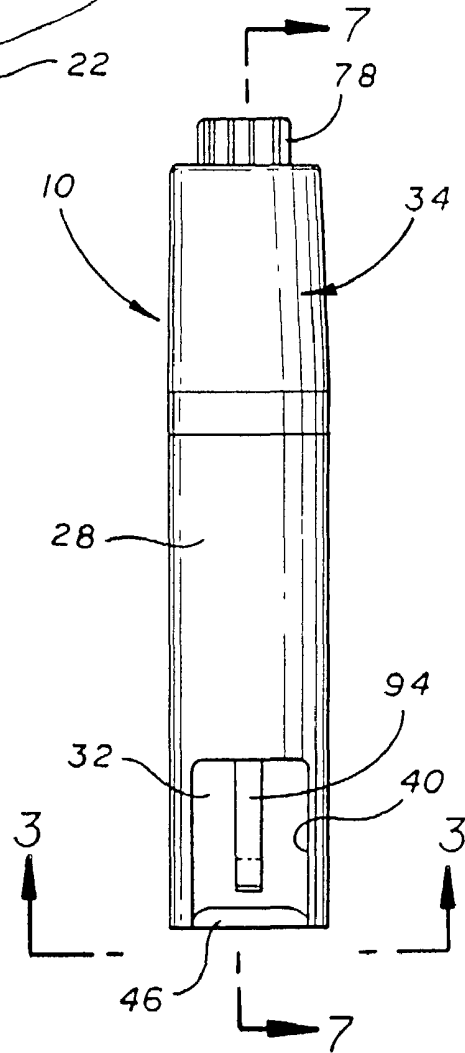
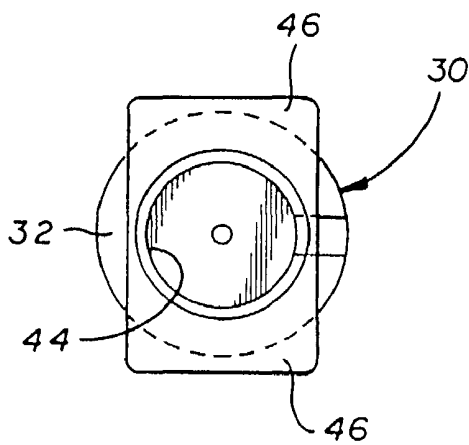
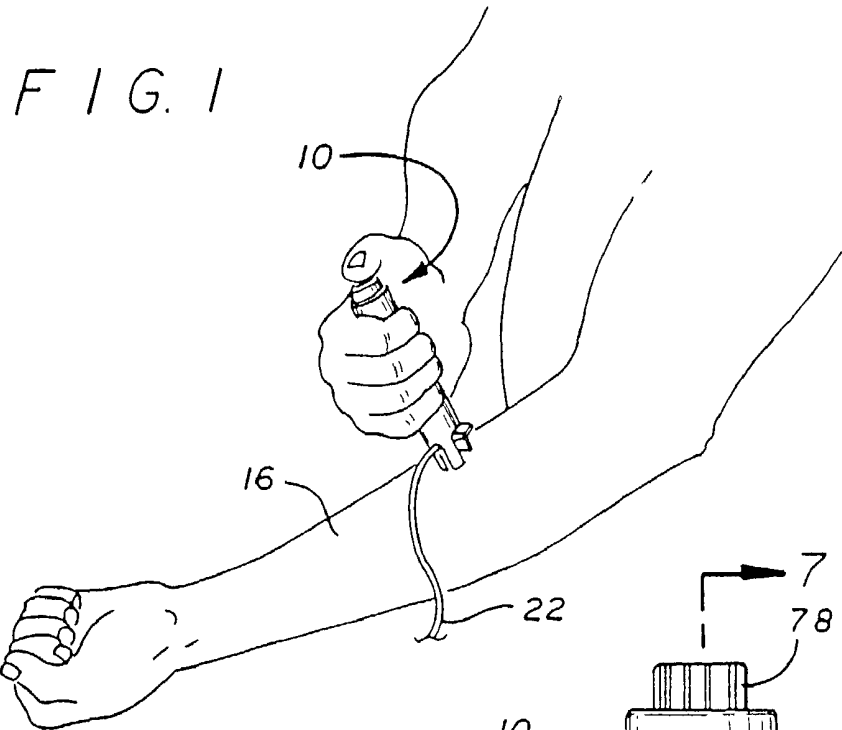
(22) Filed: **Dec. 9, 2002**

Related U.S. Application Data

(63) Continuation-in-part of application No. 09/839,052, filed on Apr. 20, 2001, now Pat. No. 6,607,509, which is a continuation-in-part of application No. 09/215,356, filed on Dec. 18, 1998, now Pat. No. 6,293,925, which is a continuation-in-part of application No. 09/002,303, filed on Dec. 31, 1997, now Pat. No. 6,093,172.



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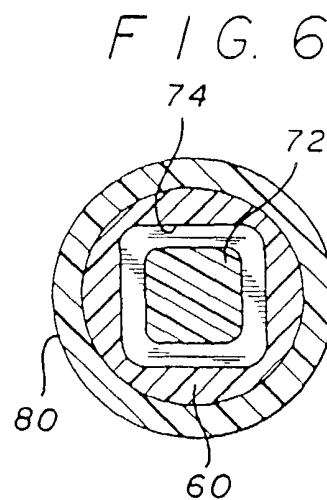
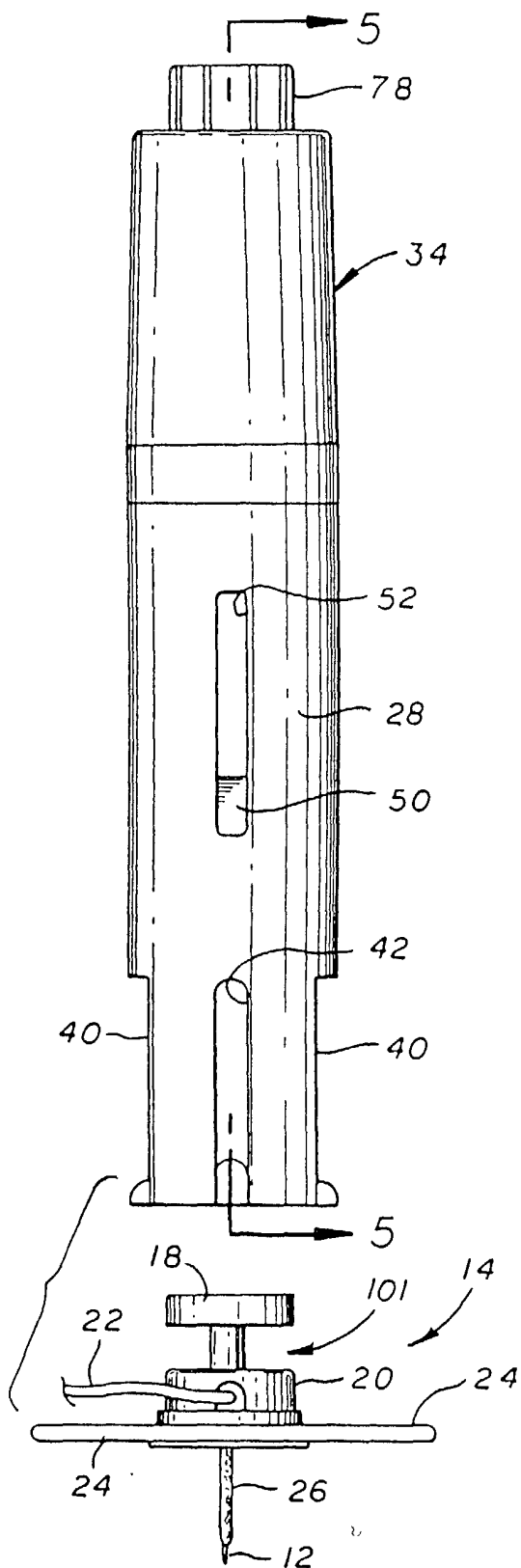


FIG. 4

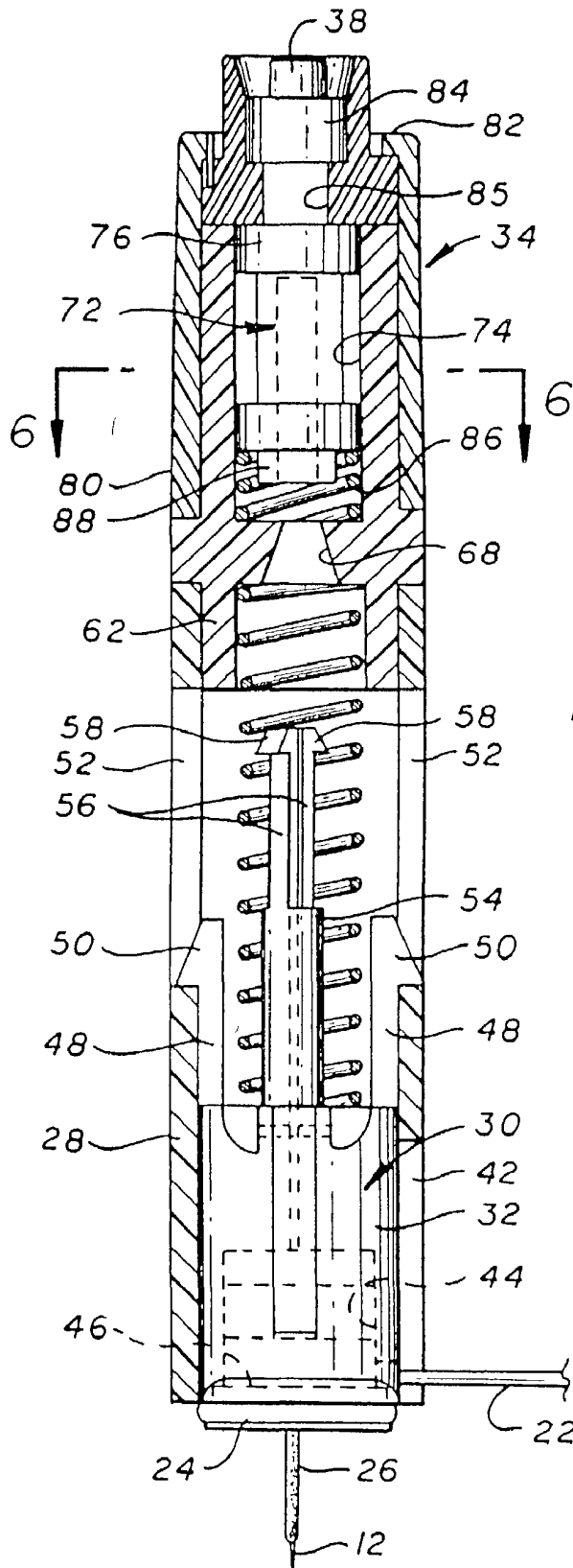


FIG. 5

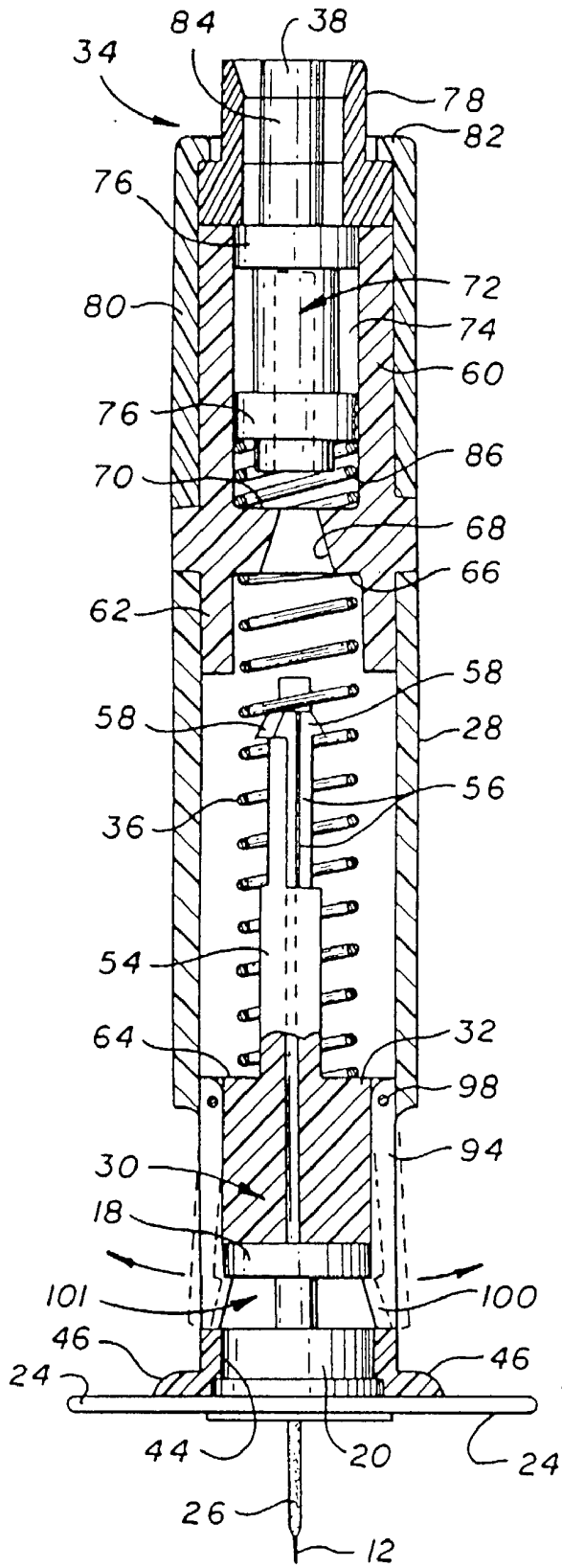


FIG. 7

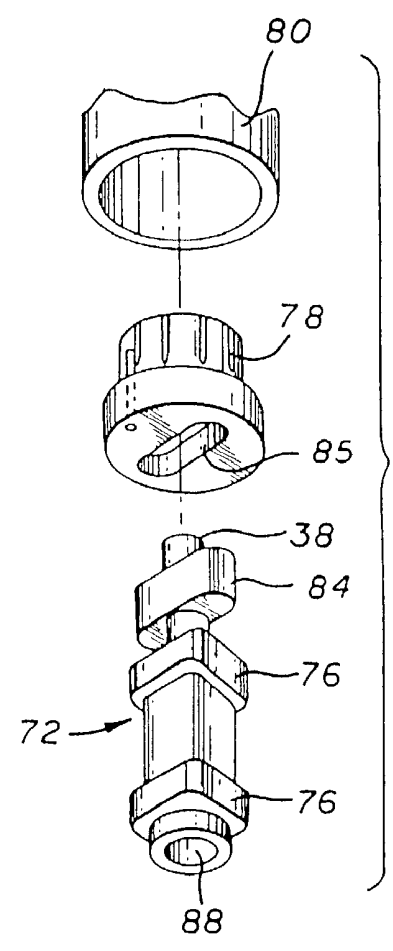


FIG. 8

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