CLAIMS

1. A fluid path subassembly, comprising:

medicament flow pathway components of a medical device; and

a holder configured for holding the components prior to assembly of the components into the device so that a center of gravity of the subassembly is disposed substantially on a central longitudinal axis of the subassembly.

2. The subassembly according to claim 1, wherein the holder comprises:

a main body; and

a balancing feature for adjusting the center of gravity of the subassembly.

3. The subassembly according to claim 2, wherein the balancing feature is connectable to the main body.

4. The subassembly according to claim 1, wherein the holder holds the components in a substantially fixed position relative to the holder.

5. The subassembly according to claim 1, wherein the medicament flow pathway components comprise:

a valve assembly connectable to a syringe barrel;

tubing connected at one end thereof to the valve assembly;

a port connected to a second end of the tubing;

a patient needle connected to the port to form a fluid pathway from the valve assembly through the patient needle; and

a needle cover for covering and uncovering the patient needle.

6. The subassembly according to claim 5, wherein the holder comprises a feature for looping and securing the tubing.

7. The subassembly according to claim 5, wherein the valve assembly comprises:

a valve plate connected to the first end of the tubing;

a valve cover housing the valve plate to move therein;

wherein the fluid path subassembly further comprises a removable locking element to prevent movement of the valve plate relative to the valve cover.

8. The subassembly according to claim 5, wherein the needle cover also provides sterility.

9. A method of assembling a drug delivery device, comprising:

A) assembling a fluid path subassembly, including assembling medicament flow pathway components into a holder configured for holding the components so that a center of gravity of the subassembly is disposed substantially on a central longitudinal axis of the subassembly;

B) packaging the fluid path subassembly and sterilizing the packaged fluid path subassembly;

C) aseptically filling the sterilized fluid path subassembly;

D) inspecting the filled fluid path subassembly; and

E) assembling the filled fluid path subassembly into a device body.

10. The method according to claim 9, wherein step A further comprises adjusting a balancing feature of the holder to align a center of gravity of the subassembly with a longitudinal axis of the holder.

11. The method according to claim 10, wherein step D comprises rotating the subassembly about the holder’s longitudinal axis.

12. The method according to claim 9, wherein steps C and D are performed at a facility different from a facility at which steps A and B are performed.