

WHAT IS CLAIMED IS:

1. A priming assembly for a drug delivery device comprising:
 - a hub;
 - a base connected to the hub and rotatable relative to the hub between a first position and a second position, wherein rotation of the base relative to the hub is restricted to movement between the first position and the second position, the base defining a passageway;
 - a cap defining an interior chamber and a passageway in fluid communication with the interior chamber; and
 - a needle connected to the hub and positioned within the interior chamber of the cap, wherein the passageway of the base is in fluid communication with the passageway of the cap when the base is in the first position, and wherein the passageway of the base is isolated from the passageway of the cap when the base is in the second position.
2. The assembly of claim 1, wherein the cap and the base form a sealed interface between the cap and the base.
3. The assembly of claim 1, wherein the cap includes a closed first end and an open second end, the open second end secured to the hub.
4. The assembly of claim 3, wherein the cap comprises an elastomeric material.
5. A priming assembly for a drug delivery device, comprising
 - a hub;
 - a base connected to the hub and rotatable relative to the hub between a first position and a second position, the base defining a passageway;
 - a cap comprising a closed first end and an open second end secured to the hub and defining an interior chamber and a passageway in fluid communication with the interior chamber; and
 - a needle connected to the hub and positioned within the interior chamber of the cap,

wherein the passageway of the base is in fluid communication with the passageway of the cap when the base is in the first position, and wherein the passageway of the base is isolated from the passageway of the cap when the base is in the second position, and

wherein the cap is configured to deform from a first position where an end of the needle is positioned within the cap to a second position where the end of the needle is positioned outside of the cap.

6. The assembly of claim 1, wherein one of the hub and the base defines a slot and the other of the hub and the base comprises a projection received within the slot, the slot having a first end and a second end, and wherein, when the projection is at the first end of the slot, the base is in the first position, and, when the projection is at the second end of the slot, the base is in the second position.

7. The assembly of claim 1, further comprising a priming fluid tube in fluid communication with the passageway of the base.

8. The assembly of claim 7, further comprising a delivery tube connected to the hub and in fluid communication with the needle.

9. The priming assembly of claim 6, wherein the slot includes a first bump to retain the projection in the first end and a second bump to retain the projection in the second end.

10. The priming assembly of claim 6, wherein the slot and the projection are configured to provide visual and/or tactile feedback whether the base is in the first position or the second position.

11. The priming assembly of claim 1, wherein the base defines a base passageway.

12. A drug delivery device comprising:
a housing;

a cartridge received within the housing, the cartridge configured to receive a medicament;

a drive assembly received within the housing and configured to engage the cartridge and dispense medicament from the cartridge;

a needle actuator assembly received within the housing, the needle actuator assembly comprising a patient needle configured to pierce a user's skin; and

a priming system comprising:

a cartridge priming assembly comprising a first hub, a first base connected to the first hub and moveable relative to the first hub between a first position and a second position, wherein one of the first hub and the first base defines a first slot and the other of the first hub and the first base comprises a first projection received within the first slot, the first slot having a first end and a second end, and wherein, when the first projection is at the first end of the first slot, the first base is in the first position, and, when the first projection is at the second end of the first slot, the first base is in the second position; and

a needle actuator priming assembly comprising a second hub, a second base connected to the second hub and moveable relative to the second hub between a first position and a second position, wherein one of the second hub and the second base defines a second slot and the other of the second hub and the second base comprises a second projection received within the second slot, the second slot having a first end and a second end, and wherein, when the second projection is at the first end of the second slot, the second base is in the first position, and, when the second projection is at the second end of the second slot, the second base is in the second position.

13. The drug delivery device of claim 12, wherein the cartridge priming assembly further comprises a first cap defining a first interior chamber and a first cap passageway in fluid communication with the first interior chamber, and a first needle connected to the first hub and positioned within the first interior chamber of the first cap, the first base defining a first base passageway, and

wherein the needle actuator priming assembly further comprises a second cap defining a second interior chamber and a second cap passageway in fluid communication with the

second interior chamber, and a second needle connected to the second hub and positioned within the second interior chamber of the second cap, the second base defining a second base passageway.

14. The drug delivery device of claim 12, further comprising a delivery tube in fluid communication with the first hub of the cartridge priming assembly and the second hub of the needle actuator priming assembly.

15. The drug delivery device of claim 13, wherein the first base passageway of the cartridge priming assembly is in fluid communication with the first cap passageway of the cartridge priming assembly when the first base is in the first position, and wherein the first base passageway of the cartridge priming assembly is isolated from the first cap passageway when the first base is in the second position.

16. The drug delivery device of claim 13, wherein the second base passageway of the needle actuator priming assembly is in fluid communication with the second cap passageway of the needle actuator priming assembly when the second base is in the first position, and wherein the second base passageway of the needle actuator priming assembly is isolated from the second cap passageway when the second base is in the second position.

17. The drug delivery device of claim 13, further comprising an inflow tube in fluid communication with the first base passageway of the cartridge priming assembly.

18. The drug delivery device of claim 13, further comprising an outflow tube in fluid communication with the second base passageway of the needle actuator priming assembly.

19. The drug delivery device of claim 12, wherein the first cap and the first base of the cartridge priming assembly form a sealed interface between the first cap and the first base, and the second cap and the second base of the needle actuator priming assembly form a sealed interface between the second cap and the second base.