

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, 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,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.
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. The assembly of claim 3, 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, further comprising a priming fluid tube in fluid communication with the passageway of the base.

7. The assembly of claim 6, further comprising a delivery tube connected to the hub and in fluid communication with the needle.

8. A drug delivery device comprising:

a housing;

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

a drive assembly received with 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, a first cap defining a first cap interior chamber and a first cap passageway in fluid communication with the first cap interior chamber, and a first needle connected to the first hub and positioned within the first cap interior chamber of the first cap, the base defining a first base passageway;

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, a second cap defining a second cap interior chamber and a second cap passageway in fluid communication with the second cap interior chamber, and a second needle connected to the second hub and positioned within the second cap interior chamber of the second cap, the second base defining a second base passageway; and

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,

wherein the first base passageway of the first base of the cartridge priming assembly is in fluid communication with the first cap passageway of the first cap of the cartridge priming assembly when the first base is in the first position, and wherein the

first base passageway of the first base of the cartridge priming assembly is isolated from the first cap passageway of the first cap when the first base is in the second position.

9. The device of claim 8, wherein the second base passageway of the second base of the needle actuator priming assembly is in fluid communication with the second cap passageway of the second cap of the needle actuator priming assembly when the second base is in the first position, and wherein the second base passageway of the second base of the needle actuator priming assembly is isolated from the second cap passageway of the second cap when the second base is in the second position.

10. The device of claim 8, further comprising an inflow tube in fluid communication with the first base passageway of the first base of the cartridge priming assembly.

11. The device of claim 10, further comprising an outflow tube in fluid communication with the second base passageway of the second base of the needle actuator priming assembly.

12. The device of claim 8, 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.

13. The device of claim 8, wherein the first cap of the cartridge priming assembly and the second cap of the needle actuator priming assembly each include a closed first end and an open second end, the open second ends secured to the respective first and second hubs.

14. The device of claim 13, wherein the first cap of the cartridge priming assembly and the second cap of the needle actuator priming assembly each comprise an elastomeric material.

15. The device of claim 13, wherein the first cap of the cartridge priming assembly is configured to deform from a first position where an end of the first needle is positioned within the first cap and a second position where the end of the first needle is positioned outside of the first cap, and the second cap of the needle actuator priming assembly is configured to deform from a first position where an end of the second needle is positioned within the second cap and a second position where the end of the second needle is positioned outside of the second cap.

16. The device of claim 8, wherein one of the first hub and the first base of the cartridge priming assembly defines a slot and the other of the first hub and the first 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 first base is in the first position, and, when the projection is at the second end of the slot, the first base is in the second position.

17. 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 defining an interior chamber and a passageway in fluid communication with the interior chamber, wherein the cap includes a closed first end and an open second end, the open second end secured to the hub; 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,

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.