**CLAIMS**

1. A drive module for an injection device for delivering one or more agents into a subject's body, comprising:

an elongate drive housing including a first end and a second end, and a chamber;

a source of pressurized gas communicating with a passage into the chamber;

a plunger slidably disposed within the chamber comprising a proximal end including a piston and a distal end, the plunger configured such that gas entering the chamber from the passage causes the plunger to move from an initial position to an extended position in which the distal end of the plunger extends from the second end of the drive housing for delivering one or more agents from an injector module based on movement of the plunger,

in which the piston comprises one or more passages configured to allow gas from the canister entering the chamber to pass through the piston into the chamber around the plunger.

2. A drive module according to Claim 1, in which the plunger comprises a plunger chamber extending from an opening in the proximal end communicating with the second such that pressurized gas from the canister entering the chamber fills the plunger chamber.

3. A drive module according to Claim 1, further comprising an actuator for opening a path from the source of pressurized gas through the passage into the chamber.

4. A drive module according to Claim 1, 2 or 3, in which the source of pressurized gas comprises:

a puncture mechanism comprising a pin holder within the drive housing adjacent the first end including a puncture pin;

a canister containing pressurized gas including a penetrable septum disposed adjacent the puncture pin, the pin holder movable from an inactive position in which the puncture pin is spaced away from the septum and an active position in which the puncture pin penetrates the septum and causes the gas within the canister to flow through the passage into the second chamber; and

an actuator for directing the pin holder from the inactive position to active position.

5. A drive module according to Claim 4, in which the actuator comprises:

one or more catches on the drive housing adjacent the pin holder for restraining the pin holder in the inactive position;

an actuation sleeve slidably disposed over the drive housing and comprising a proximal end disposed distal to the one or more catches such that, movement of the actuation sleeve proximally disengages the one or more catches, whereupon the pin holder automatically moves from the inactive position to the active position to activate the drive module.

6. A drive module according to Claim 4, in which the pin holder comprises a lead screw comprising threads that cooperate with the first end of the drive housing such that rotation of the lead screw causes the lead screw to move from the inactive position to the active position.

7. A drive module according to Claim 6, in which the actuator comprises a rotating handle mounted on the first end of the drive housing and coupled to the lead screw, the handle rotatable relative to the drive housing for directing the lead screw from the inactive position to the active position.

8. A drive module according to Claim 4, in which the actuator comprises a handle pivotally coupled to the drive housing and a linking bar coupled between the handle and the pin holder such that rotation of the handle about a pivot to cause the linking bar to direct the pin holder from the inactive position to the active position.

9. A drive module according to Claim 4, in which the actuator comprises an actuation button extending from the drive housing and coupled to the pin holder, the actuation button advanceable to direct the pin holder distally for sufficient distance to move the pin holder from the inactive position to the active position.

10. A drive module according to Claim 4, in which the septum of the canister is oriented proximally within the drive housing, and the puncture mechanism is disposed proximal to the canister such that the puncture pin is oriented distally towards the septum such that distal movement of the pin holder causes the puncture pin to move distally to penetrate the septum.

11. A drive module according to Claim 4, in which the septum of the canister is oriented distally within the drive housing, and the puncture mechanism is disposed distal to the canister such that the puncture pin is oriented proximally towards the septum such that proximal movement of the pin holder causes the puncture pin to move proximally to penetrate the septum.

12. A device for delivering one or more agents into a patient's body, comprising:

(a) a drive module according to any preceding claim; and

(b) an injector module comprising:

an injector housing coupled to the drive housing carrying an agent chamber containing one or more agents;

an injector piston slidably disposed within the agent chamber and coupled to the distal end of the plunger; and

a needle extending from the injector module opposite the drive housing and communicating with the agent chamber for delivering the one or more agents from the agent chamber when the plunger moves from the retracted position to the extended position, thereby advancing the piston within the agent chamber.

13. A device for delivering one or more agents into a patient's body, comprising:

(a) a drive module comprising:

an elongate drive housing including a first end and a second end, a first chamber adjacent the first end communicating with a second chamber adjacent the second end via an intermediate passage;

a puncture mechanism within the first chamber adjacent the first end including a puncture pin;

a canister containing pressurized gas including a penetrable septum disposed adjacent the puncture pin;

an actuator configured to move one of the puncture mechanism and the canister to cause the puncture pin to penetrate the septum and cause the gas within the canister to flow through the first chamber around the canister, through the intermediate passage, and into the second chamber; and

a plunger slidably disposed within the second chamber comprising a proximal end including a piston and a distal end, the plunger configured such that gas entering the second chamber from the passage causes the plunger to move from an initial position to an extended position in which the distal end of the plunger extends from the second end of the drive housing for delivering one or more agents from an injector module based on movement of the plunger; and

(b) an injector module comprising:

an injector housing coupled to the drive housing carrying an agent chamber containing one or more agents;

a piston slidably disposed within the agent chamber and coupled to the distal end of the plunger; and

a needle extending from the injector module opposite the drive housing and communicating with the agent chamber for delivering the one or more agents from the agent chamber when the plunger moves from the retracted position to the extended position, thereby advancing the piston within the agent chamber,

in which the piston comprises one or more passages configured to allow gas from the canister entering the first chamber to pass through the piston into the chamber around the plunger.

14. A device according to Claim 13, in which the plunger comprises a plunger chamber extending from an opening in the proximal end communicating with the second such that pressurized gas from the canister entering the second chamber fills the plunger chamber.

15. A device according to Claim 13, in which the injector further comprises a needle guard movable from a guarded position in which the needle guard covers the needle and a retracted position in which the needle is exposed to perform an injection, the needle guard coupled to the actuator and slidable along the drive housing such that the needle guard activates the actuator when directed to the retracted position.

16. A device according to Claim 15, in which the needle guard is biased to the guarded position, the device further comprising:

an actuation sleeve slidably disposed over the drive housing and coupled to the needle guard; and

a spring coupled between the actuation sleeve and drive housing to bias the needle guard to the guarded position.

17. A device according to Claim 13, in which the puncture mechanism comprises a pin sleeve slidably disposed within the first chamber adjacent the first end and carrying the puncture pin, the pin sleeve movable from an inactive position in which the puncture pin is spaced apart from the septum and an active position in which the puncture pin penetrates the septum, the pin sleeve biased to the active position and restrained in the inactive position by the actuator.

18. A device according to Claim 17, in which the actuator comprises one or more catches on the drive housing restraining the pin sleeve in the inactive position, the actuation sleeve configured to disengage the one or more catches to allow the pin sleeve to automatically move from the inactive position to the active position.

19. A device according to Claim 14 or 15, further comprising a locking mechanism for preventing proximal movement of the needle guard from the guarded position until the locking mechanism is released.

20. A device according to any of Claims 13 to 19, in which the injector housing comprises a window allowing observation of the piston within the agent chamber.

21. A device according to Claims 13 to 19, in which the puncture mechanism comprises a sleeve slidably disposed within the first chamber adjacent the first end and carrying the puncture pin, the sleeve movable from an inactive position in which the puncture pin is spaced apart from the septum and an active position in which the puncture pin penetrates the septum, the sleeve biased to the active position and restrained in the inactive position by the actuator.

22. A device according to Claims 13 to 19, in which the injector module further comprises a syringe mounted within the injector housing comprising a barrel defining the agent chamber, and in which the needle extends from a distal end of the syringe and the piston is slidable within the barrel.

23. A drive module for an injection device for delivering one or more agents into a subject's body, comprising:

an elongate drive housing including a first end and a second end, a first chamber adjacent the first end communicating with a second chamber adjacent the second end via an intermediate passage;

a puncture mechanism comprising a puncture pin within the first chamber;

a canister containing pressurized gas including a penetrable septum disposed adjacent the puncture pin, one or both of the canister and the puncture mechanism movable from an inactive position in which the puncture pin is spaced away from the septum and an active position in which the puncture pin penetrates the septum and causes the gas within the canister to flow through the first chamber and the intermediate passage into the second chamber; and

a plunger slidably disposed within the second chamber comprising a proximal end including a piston and a distal end, the plunger configured such that gas entering the second chamber causes the plunger to move from an initial position to an extended position in which the distal end of the plunger extends from the second end of the drive housing for delivering one or more agents from an injector module based on movement of the plunger,

in which the piston comprises one or more passages configured to allow gas from the canister entering the second chamber to pass through the piston into the second chamber around the plunger.

24. A drive module according to Claim 23, in which the plunger comprises a plunger chamber extending from an opening in the proximal end communicating with the second chamber such that pressurized gas from the canister entering the second chamber fills the plunger chamber.

25. A drive module according to Claim 23, further comprising an actuator for directing one or both of the puncture mechanism and the canister from the inactive position to active position.

26. A device for delivering one or more agents into a patient's body, comprising:

(a) a drive module according to Claim 23, 24 or 25; and

(b) an injector module comprising:

an injector housing coupled to the drive housing carrying an agent chamber containing one or more agents;

an injector piston slidably disposed within the agent chamber and coupled to the distal end of the plunger; and

a needle extending from the injector module opposite the drive housing and communicating with the agent chamber for delivering the one or more agents from the agent chamber when the plunger moves from the retracted position to the extended position, thereby advancing the piston within the agent chamber.