electro-mechanical device may comprise two or more such medicaments. The device allows the user to set a multi-drug compound device through one single dose setting mechanism (such as a digital display, a soft-touch operable panel, and/or graphical user interface (GUI)). The device then allows the dispense of at least a plurality of medicaments through a single dispense interface (such as a double-ended needle assembly). This single dose setter can control the electro-mechanical drive unit of the device such that a predefined combination of the individual drug compounds may be administered when a single dose of one of the medicaments is set and dispensed through the single dispense interface. Although principally described in this application as an injection device, the basic principle could be applicable to other forms of drug delivery, such as, but not limited to, inhalation, nasal, ophthalmic, oral, topical, and like forms of drug delivery.

According to a first aspect of the present invention, a device is disclosed comprising a control unit configured to receive information on a dose of a primary medicament. The control unit is further configured to determine at least one value of a dose of a fluid agent based at least in part on the dose of the primary medicament and a therapeutic dose profile. The control unit may further comprise a microcontroller and a memory configured to store the therapeutic dose profile.

~~In an example embodiment, t~~The therapeutic dose profile is a non-linear profile of the primary medicament and the fluid agent.

In an example embodiment, the fluid agent is a secondary medicament.

In an example embodiment, the control unit is configured to determine the at least one value of a dose of the fluid agent based only on the dose of the primary medicament and the therapeutic dose profile.

In a further example embodiment, the device comprises an operator interface in communication with the control unit, wherein the information on the dose of the primary medicament is received by the control unit from the operator interface.

In an example embodiment, the control unit is configured to determine one value of the dose of the fluid agent. A user confirmation for the determined value may be requested

Claims

1. A device ~~(10)~~ comprising:
a control unit ~~(300)~~ configured to receive information on a dose of a primary medicament,
wherein said control unit ~~(300)~~ is further configured to determine at least one value of a dose of a fluid agent based at least in part on said dose of said primary medicament and a therapeutic dose profile
wherein the therapeutic dose profile is a non-linear profile ~~(820, 860, 880, 900, 920)~~ of the primary medicament and the fluid agent.

2. The device of claim 1, wherein the control unit ~~(300)~~ comprises a microcontroller ~~(302)~~ and a memory ~~(324)~~ configured to store the therapeutic dose profile.

3. The device of any of the previous claims, wherein the fluid agent is a secondary medicament.

4. The device of any of the previous claims, further comprising an operator interface ~~(60)~~ in communication with said control unit ~~(300)~~, wherein said information on the dose of the primary medicament is received by the control unit ~~(300)~~ from said operator interface ~~(60)~~.

5. The device of any of the previous claims, wherein the control unit is configured to determine one value of the dose of the fluid agent.

6. The device of any of claims 1 to 4, wherein the at least one value of the dose of the fluid agent is a range of values.

7. The device of claim 6, wherein the operator interface ~~(60)~~ is configured to display the range of values of the dose of the fluid agent on a display ~~(80)~~, and
wherein the control unit ~~(300)~~ is configured to receive a user selection of a dose

value within the range of the dose of the fluid agent from the operator interface ~~(60)~~.

8. The device of any of the previous claims, wherein said control unit ~~(300)~~ is further configured to determine at least one value of a dose of another fluid agent based at least in part on said dose of said primary medicament and said therapeutic dose profile.

9. The device of any of the previous claims, wherein said primary medicament comprises at least one of an insulin and an insulin analog.

10. The device of any of the previous claims, wherein said fluid agent comprises at least one of a GLP-1 and a GLP-1 analog.

11. The device of any of the previous claims, further comprising:
an electro-mechanical drive unit ~~(500, 600)~~ operably coupled to said control unit ~~(300)~~, said electro-mechanical drive unit ~~(500, 600)~~ also coupled to a primary reservoir ~~(90)~~ containing said primary medicament and a secondary reservoir ~~(100)~~ containing said fluid agent; and
a single dispense assembly ~~(200)~~ configured for fluid communication with said primary and said secondary reservoir ~~(90, 100)~~.

12. The device of claim 11, wherein activation of an injection button ~~(74)~~ causes said electro-mechanical drive unit ~~(500, 600)~~ to dispense said dose of said primary medicament and said dose of said fluid agent through said single dispense assembly ~~(200)~~.

13. The device of any of claims 11 to 12, wherein said single dispense assembly ~~(200)~~ comprises a first inner body ~~(220)~~, said first inner body ~~(220)~~ comprising a first piercing needle ~~(240)~~ in fluid communication with said primary reservoir ~~(90)~~ and a second piercing needle ~~(250)~~ in fluid communication with said secondary

reservoir ~~(100)~~, and wherein said single dispense assembly ~~(200)~~ comprises a double ended needle assembly ~~(400)~~.

14. The device of any of claims 11 to 13, wherein said primary and said secondary reservoirs ~~(90, 100)~~ are contained in at last one multi-dose cartridge comprising a stopper ~~(94, 104)~~ and a pierceable septum.