

Claims

1. An injection device comprising:
an actuator adapted when actuated to cause commencement of an injection sequence;
5 a locking mechanism adapted to be moved between a locked position in which the locking mechanism prevents the actuator from being actuated, and an unlocked position in which the actuator can be actuated to cause commencement of the injection sequence,
wherein the locking mechanism comprises a contact portion which in the locked position of the locking mechanism projects against the actuator, wherein the contact portion comprises a
10 curved surface,
wherein the locking mechanism is adapted such that the contact portion is not in contact with an engagement surface of the actuator when the locking mechanism is in its unlocked position.
- 15 2. The injection device of claim 1, wherein the locking mechanism is adapted such that the contact portion is in contact with an engagement surface of the actuator when the locking mechanism is in its locked position.
3. The injection device of claim 2, wherein the engagement surface is a planar surface.
- 20 4. The injection device of claim 2 or claim 3, wherein, when the locking mechanism is not in its unlocked position, the curved surface of the contact portion is in contact with the engagement surface over only a sub-part of the contact portion.
- 25 5. The injection device of claims 2 and 3, wherein the locking mechanism is moveable between its locked position and its unlocked position such that the contact portion moves from a position in which it contacts the engagement surface of the actuator to a position in which it no longer contacts the engagement surface of the actuator.
- 30 6. The injection device of claim 5, wherein the locking mechanism slides between its locked position and unlocked position along a first axis A.
7. The injection device of any one of claims 2 to 6, wherein the contact portion comprises a protrusion which extends from the locking mechanism.
- 35 8. The injection device of claim 7, wherein the protrusion extends along a second axis B.

9. The injection device of any one of claims 2 to 8, wherein the engagement surface is a surface on a first portion which extends from the actuator.
10. The injection device of claim 9, wherein the first portion extends along third axis C.
11. The injection device of claim 10 when dependent on claim 8, wherein the second axis B and third axis C intersect each other with an intersection angle of between 45 and 90 degrees, 60 and 90 degrees, 80 and 90 degrees, or 90 degrees.
12. The injection device of claim 11 when dependent on claim 6, wherein the first axis A and third axis C are parallel to each other.
13. The injection device of claim 12, wherein the second axis B intersects both the first axis A and the third axis C.
14. The injection device of any one of the preceding claims, wherein the actuator moves between a first position in which commencement of the injection sequence is prevented, and a second position in which commencement of the injection sequence occurs.
15. The injection device of claim 14, further comprising a drive mechanism, wherein the actuator comprises a locking surface which inhibits the drive mechanism when the actuator is in its first position and which does not inhibit the drive mechanism when the drive mechanism is in its second position.
16. The injection device of claim 15, wherein the actuator rotates between its first and second positions about a pivot.
17. The injection device of claim 16 when dependent on claim 9, wherein the axis of the pivot and the second axis B substantially intersect each other with an intersection angle of between 45 and 90 degrees, 60 and 90 degrees, 80 and 90 degrees, or 90 degrees.
18. The injection device of any one of the preceding claims when dependent on claim 15, further comprising a syringe which is moveable by the drive mechanism on commencement of the injection sequence from a position in which the syringe is wholly contained within a body of the injection device to a position in which a needle of the syringe extends from the body of the injection device via an opening, wherein the drive mechanism is adapted to expel contents of the syringe via the needle when the syringe is in its extended position.