CLAIMS

1. A high-dose drug delivery device (100) for oral administration, the high-dose drug delivery device (100) comprising:

a first body part (102);

a second body part (104);

an internal chamber (110) within the first body part (102);

an actuator mechanism (106) configured to rotate at least one of the first body part (102) or the second body part (104) with respect to one another about a central axis (101) of the high-dose drug delivery device (100);

a first attachment part (108) in communication with the internal chamber (110); and

an injector mechanism (200, 300, 400) configured to apply pressure on the internal chamber (110) during or after rotation of the first body part (102) or the second body part (104) with respect to one another,

wherein the first attachment part (108) comprises a first distal end provided with a tip configured to penetrate a biological tissue, and

wherein the first attachment part (108) comprises a channel (109) fluidly connecting the internal chamber (110) and an outer surface of the first attachment part (108).

2. High-dose drug delivery device (100) according to claim 1, wherein the injector mechanism (200, 300, 400) comprises a swellable polymer (402).

3. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the injector mechanism (200, 300, 400) comprises an expandable gas.

4. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the injector mechanism (200, 300, 400) comprises a breakable seal.

5. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the injector mechanism (200, 300, 400) comprises a first component separated from a second component, and wherein the rotation interacts the first component with the second component to form an expandable gas.

6. High-dose drug delivery device (100) according to claim 5, wherein the first component is separated from the second component via a pH releasable plug.

7. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the injector mechanism (200, 300, 400) comprises a spike (206) configured to pierce a container.

8. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the injector mechanism (200, 300, 400) comprises a compression spring (202).

9. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the internal chamber (110) is under pressure prior to the rotation.

10. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the internal chamber (110) has a volume of at least 5 μL.

11. High-dose drug delivery device according to any one of the preceding claims, wherein the internal chamber has a volume of at least 1mL.

12. High-dose drug delivery device (100) according to any one of the preceding claims, wherein the internal chamber is configured to releasably retain an active drug substance.

13. High-dose drug delivery device (100) according to claim 12, wherein the active drug substance is a solid rod.

14. High-dose drug delivery device (100) according to claim 12, wherein the active drug substance is a liquid and/or a suspension.

15. High-dose drug delivery device (100) according to any one of claims 12-14, wherein the internal chamber (110) is configured to releasably retain 1 μg-500mg of the active drug substance.