

Claims

- 5 1) Syringe (100) comprising a barrel (2), a plunger arranged to travel within said barrel (2) and a plunger rod (1) for driving said plunger in a bidirectional manner, wherein said plunger rod (1) comprises a head (8) at a distal end thereof and wherein said plunger rod (1) further comprises a plurality of protruding finger grip enhancing means (5) axially spaced along a length of the plunger rod (1), wherein the finger

10 grip enhancing means (5) are provided with a mutual center distance between 3 and 20 mm, preferably between 5 and 10 mm and most preferably between 6 and 9 mm, wherein the plunger rod (1) has a length such that when it has been fully depressed relative to the barrel (2), the plunger rod (1) extends at least 8mm from a distal end of barrel (2), measured from an underside of the head (8).

15 2) Syringe (100) according to claim 1, wherein said finger grip enhancing means (5) comprises a plurality of protruding ribs axially spaced along the length of the plunger rod (1), wherein said ribs extend generally perpendicularly to a longitudinal axis of the plunger rod (1).

20 3) Syringe (100) according to claim 1, wherein the plunger rod (1) has a cross-shaped cross-section and wherein said finger grip enhancing means (5) are arranged in a gap (6) defined by two adjacent legs (7) of the cross-shaped plunger rod (1) and wherein said grip elements are axially spaced along a length of the plunger rod (1) and lying in a plane

25 generally perpendicular to a longitudinal axis of the plunger rod (1).

 4) Syringe (100) according to claim 3, wherein the finger grip enhancing means (5) comprises a plurality of elements shaped as circle sectors and wherein the arcs of the circle sectors extend between the tips of the two adjacent legs (7) of the plunger rod (1).

- 5) Syringe (100) according to claim 4, wherein the radii of the circle sectors is greater than the length of the two adjacent legs (7) of the plunger rod (1).
- 6) Syringe (100) according to any of claims 3-5, wherein finger grip enhancing means (5) are arranged in at least two gaps (6) of the plunger rod (1).
- 7) Syringe (100) according to any of the preceding claims, wherein a finger grip enhancing means (5) has a thickness of 0.5-3 mm, preferably approximately 1 mm.
- 8) Syringe (100) according to any of the preceding claims, wherein the finger grip enhancing means (5) are provided along substantially the whole length of the part of the plunger rod (1) extending from an underside of the head (8) to a connecting part (9) of the plunger rod (1).
- 9) Syringe (100) according to any of the preceding claims, wherein the head (8) of the plunger rod (1) is provided with finger grip enhancing means.
- 10) Syringe (100) according to claim 9, wherein the finger grip enhancing means of the head (8) of the plunger rod (1) comprises a rib (11, 12, 13) extending in a direction generally parallel to the longitudinal axis of the plunger rod (1).
- 11) Syringe (100) according to claim 9, wherein the finger grip enhancing means of the head (8) of the plunger rod (1) comprises a thermoplastic elastomer.
- 12) Syringe (100) according to any of the preceding claims, wherein the head (8) of the plunger rod (1) has a concave shape.
- 13) Syringe (100) according to any of claims 1-11, wherein the head (8) of the plunger rod (1) has a convex shape.
- 14) Syringe (100) according to any of the preceding claims, wherein the barrel (2) is of a two-chamber type.

- 15) Kit of parts comprising infusion equipment and a medicament to be injected, wherein said infusion equipment comprises a syringe (100) according to any of the preceding claims.
- 16) Kit of parts according to claim 15, wherein the medicament is a medicament for treatment of haemophilia.
- 17) Plunger rod (1) for driving a plunger in a bidirectional manner within a barrel (2) of a syringe (100), wherein said plunger rod (1) comprises a head (8) at a distal end thereof and wherein said plunger rod (1) further comprises a plurality of protruding finger grip enhancing means (5) axially spaced along a length of the plunger rod (1), wherein the finger grip enhancing means (5) are provided with a mutual center distance between 3 and 20 mm, preferably between 5 and 10 mm and most preferably between 6 and 9 mm, wherein the plunger rod (1) has a length such that when it has been fully depressed relative to the barrel (2), the plunger rod (1) extends at least 8mm from a distal end of barrel (2), measured from an underside of the head (8).
- 18) Method for manufacturing a plunger rod (1) by injection moulding, wherein said plunger rod (1) comprising a head (8) at a distal end thereof and a plurality of protruding finger grip enhancing means (5) axially spaced along a length of the plunger rod (1), said finger grip enhancing means (5) being provided with a mutual center distance between 3 and 20 mm, preferably between 5 and 10 mm and most preferably between 6 and 9 mm, wherein the plunger rod (1) has a length such that when it has been fully depressed relative to the barrel (2), the plunger rod (1) extends at least 8mm from a distal end of barrel (2), measured from an underside of the head (8)..
- 19) Method for manufacturing a plunger rod (1) according to claim 18, wherein a thermoplastic elastomer (15) is provided at a distal end of head (8) by injection moulding.
- 20) Method for manufacturing a plunger rod (1) according to claim 19, wherein the thermoplastic elastomer (15) is injected through a channel (14) extending through plunger rod (1).