

CLAIMS

1. A plunger for a syringe assembly for administering a liquid composition,
wherein the plunger comprises a plunger rod and a plunger head,
wherein the plunger rod comprises a proximal end and a distal end, and
wherein the plunger head is attached to the proximal end of the plunger rod
and comprises a proximal facing surface configured to serve as a thumb plate during
administering,
characterized in that the plunger comprises a grip pad attached to the proximal
facing surface of the plunger head and extending at least partly over said proximal
facing surface, wherein the grip pad is made by injection molding.
2. The plunger according to claim 1, characterized in that the grip pad on the plunger
head is made of a thermoplastic elastomere (TPE), in particular of a coloured
thermoplastic elastomere (cTPE).
3. The plunger according to claim 1 or 2, characterized in that the proximal facing
surface of the plunger head comprises at least one deepening, in particular at least
one groove, which is filled by grip pad injection molding material.
4. The plunger according to any one of the previous claims, characterized in that the
grip pad on the plunger head is designed in such a way that it represents a symbol
("+"), in particular a letter or another character selected from the ASCII-Code.
5. The plunger according to any one of the previous claims, characterized in that the
grip pad on the plunger head is made in one piece comprising one injection point
only.
6. The plunger according to any one of the previous claims, characterized in that the
plunger rod comprises at least one section in its longitudinal direction with a at least
substantially double-T-profile shape, a double-T-profile-like shape, a I-profile shape
or a I-profile-like shape.

7. A method for manufacturing a plunger according to any one of the claims 1 to 6, comprising at least the steps:
 - manufacturing the plunger head,
 - forming the grip pad by injection molding.
8. A finger grip for a syringe assembly for administering a liquid composition, comprising a finger grip body with two flanges extending radially in opposite directions from a center bore in the finger grip body through which a plunger of a syringe assembly can be inserted, each flange serving as a grip portion and having a finger contact area onto which at least one finger of a user can be put partly during administering to support the finger whilst administering, wherein each flange comprises a distal facing surface and a proximal facing surface,
 - characterized in that the finger grip comprises a grip pad attached to the distal facing surface of at least one of the flanges extending at least partly over said distal facing surface, wherein the grip pad is made by injection molding.
9. Finger grip according to claim 8, characterized in that at least on grip pad on the finger grip is made of a thermoplastic elastomere (TPE), in particular of a coloured thermoplastic elastomere (cTPE).
10. Finger grip according to claim 8 or 9, characterized in that at least one grip pad on one of the finger grip flanges is made in one piece comprising one injection point only.
11. A method for manufacturing a finger grip according to any one of the claims 8 to 10, comprising at least the steps:
 - manufacturing a finger grip body including two flanges extending radially in opposite directions from a center bore in the finger grip body through which a plunger of a syringe assembly can be inserted, each flange serving as a grip portion and having a finger contact area onto which at least one finger of a user can be put partly during administering to support the finger whilst administering, wherein each flange comprises a distal facing surface and a proximal facing surface, and
 - forming the grip pad by injection molding.

12. A syringe assembly for administering a liquid composition to a human or animal body, comprising at least:
 - a longitudinal syringe barrel having an inner lumen for receiving and storing a liquid composition to be administered,
 - a finger grip coupled to a proximal end of said barrel, and
 - a plunger having a plunger rod and a plunger head, the plunger rod being disposed at least partly within the inner lumen of the barrel with its distal end,characterized in that the plunger is a plunger according to any one of the claims 1 to 6 or a plunger made by a method according to claim 7 and/or in that the finger grip is a finger grip according to any one of the claims 8 to 10 or a finger grip made by a method according to claim 11.
13. The syringe assembly according to claim 12, characterized in that the syringe barrel comprises a Luer lock connector at its distal end integrally formed with the syringe barrel, wherein the syringe assembly further comprises a tip cap, the tip cap covering and sealing the distal end of the syringe barrel, wherein the tip cap is a two-part tip cap comprising a rigid part and an elastomeric part, wherein the maximum outer diameter of the rigid part is less or equal to the outer diameter of the Luer lock connector of the syringe barrel.
14. A kit comprising parts of a syringe assembly according to claim 12 or 13, configured to be assembled to a syringe assembly according to claim 12 or 13, wherein the kit comprises at least:
 - a longitudinal syringe barrel having an inner lumen for receiving and storing a liquid composition to be administered,
 - a finger grip configured to be coupled to a proximal end of said barrel, and
 - a plunger having a plunger rod and a plunger head, wherein the plunger rod is configured to be disposed at least partly within the inner lumen of said barrel with its distal end,characterized in that the plunger is a plunger according to any one of the claims 1 to 6 or a plunger made by a method according to claim 7 and/or in that the finger grip is a finger grip according to any one of the claims 8 to 10 or a finger grip made by a method according to claim 11.

15. Use of a syringe assembly according to claim 12 or 13 or of a kit according to claim 14 for cosmetic or therapeutic application, particularly for replacing or filling a biological tissue or increasing volume of a biological tissue, wherein an effective amount of a liquid composition, particularly an effective amount of a dermal filler composition, is administered to a subject.