CLAIMS

1. Irradiation device (10; 100) of a paste-type composition (C) characterised in that it comprises:

- a container body (12; 120) equipped with a longitudinal through opening (14; 140) for the transit of a paste-type composition (C) to be irradiated and with a dispensing head (18; 180) extending from the longitudinal through opening (14; 140);

- at least one irradiation element (24; 240) arranged in the container body (12; 120) and suitable for irradiating the paste-type composition (C) in transit in the longitudinal through opening (14; 140); and

- an energy source (26; 260) also arranged in the container body (12; 120) and in electrical connection with the at least one irradiation element (24; 240).

2. Device (10; 100) according to claim 1, characterised in that it further comprises means (28; 280) for switching said at least one irradiation element (24; 240) on/off.

3. Device (10; 100) according to claim 2, characterised in that said means (28; 280) for switching said at least one irradiation element (24; 240) on/off comprises an end portion (21) extending from the container body (12; 120) and suitable for cooperating with a cap (40) able to be removably associated with the

dispensing head (18; 180) of the irradiation device (10; 100) to switch on the at least one irradiation element (24; 240) at the time of decoupling of the cap (40) from the dispensing head (18; 180) of the irradiation device (10; 100).

4. Device (10) according to any one of claims 1 to 3, characterised in that said support body (12) is made from semi-transparent plastic material.

5. Device (100) according to any one of claims 1 to 4, characterised in that said container body (120) comprises a first substantially cylindrical portion (110) and a second portion (130) extending from said first portion (110).

6. Device (100) according to claim 5, characterised in that said second portion (130) comprises a substantially cylindrical central part (131) coaxial to the first portion (110) and in which said longitudinal through opening (140) is made and a frusto-conical part (132) extending from said substantially cylindrical part (131).

7. Device (100) according to claim 6, characterised in that said frusto-conical part (132), at an inner surface thereof, has one or more grooves (150).

8. Device (100) according to any one of claims 5 to 7, characterised in that said first portion (110) is made from opaque plastic material and said second portion

(130) is made from transparent plastic material.

9. Device (10; 100) according to any one of the previous claims, characterised in that said dispensing head (18; 180) is externally threaded.

10. Device (10; 100) according to any one of the previous claims, characterised in that said longitudinal through opening (14; 140) has an end (16; 160), opposite the one where the dispensing head (18; 180) extends, that is threaded for the removable coupling of a cartridge (30; 300) containing the paste-type composition (C) to be irradiated.

11. Device (10; 100) according to any one of the previous claims, characterised in that said at least one irradiation element (24; 240) is a light emitting diode.

12. Device (10; 100) according to claim 11, characterised in that said light emitting diode (24; 240) is a UV or RGB diode.

13. Device (10; 100) according to any one of the previous claims, characterised in that said energy source consists of one or more disposable or rechargeable batteries.

14 Cartridge (50) for application on a treatment site of a paste-type composition (C) to be irradiated, characterised in that it comprises a tube (30; 300) containing the paste-type composition (CF) to be irradiated and a photoactivator device (10) according to

any one of claims 1 to 8, said tube of photosensitive composition being able to be removably associated with said photoactivator device.

15. Cartridge (50) according to claim 14, characterised in that said paste-type composition (C) is a photosensitive paste-type composition.

AMENDED CLAIMS
received by the International Bureau on 10 December 2013 (10.12.2013).

1. Irradiation device (10; 100) of a paste-type composition (C) characterised in that it comprises:

- a container body (12; 120) equipped with a longitudinal through opening (14; 140) for the transit of a paste-type composition (C) to be irradiated and with a dispensing head (18; 180) extending from the longitudinal through opening (14; 140);

- at least one irradiation element (24; 240) arranged in the container body (12; 120) and suitable for irradiating the paste-type composition (C) in transit in the longitudinal through opening (14; 140); and

- an energy source (26; 260) also arranged in the container body (12; 120) and in electrical connection with the at least one irradiation element (24; 240).

2. Device (10; 100) according to claim 1, characterised in that it further comprises means (28; 280) for switching said at least one irradiation element (24; 240) on/off.

3 Device (10; 100) according to claim 2, characterised in that said means (28; 280) for switching said at least one irradiation element (24; 240) on/off comprises an end portion (21) extending from the container body (12; 120) and suitable for cooperating with a cap (40) able to be removably associated with the dispensing head (18; 180) of the irradiation device (10;

100) to switch on the at least one irradiation element (24; 240) at the time of decoupling of the cap (40) from the dispensing head (18; 180) of the irradiation device (10; 100).

4. Device (10) according to any one of claims 1 to 3, characterised in that said container body (12) is made from semi-transparent plastic material.

5. Device (100) according to any one of claims 1 to 4, characterised in that said container body (120) comprises a first substantially cylindrical portion (110) and a second portion (130) extending from said first portion (110).

6. Device (100) according to claim 5, characterised in that said second portion (130) comprises a substantially cylindrical central part (131) coaxial to the first portion (110) and in which said longitudinal through opening (140) is made and a frusto-conical part (132) extending from said substantially cylindrical part (131).

7. Device (100) according to claim 6, characterised in that said frusto-conical part (132), at an inner surface thereof, has one or more grooves (150).

8. Device (100) according to any one of claims 5 to 7, characterised in that said first portion (110) is made from opaque plastic material and said second portion (130) is made from transparent plastic material.

9. Device (10; 100) according to any one of the previous claims, characterised in that said dispensing head (18; 180) is externally threaded.

10. Device (10; 100) according to any one of the previous claims, characterised in that said longitudinal through opening (14; 140) has an end (16; 160), opposite the one where the dispensing head (18; 180) extends, that is threaded for the removable coupling of a cartridge (30; 300) containing the paste-type composition (C) to be irradiated.

11. Device (10; 100) according to any one of the previous claims, characterised in that said at least one irradiation element (24; 240) is a light emitting diode.

12. Device (10; 100) according to claim 11, characterised in that said light emitting diode (24; 240) is a UV or RGB diode.

13. Device (10; 100) according to any one of the previous claims, characterised in that said energy source consists of one or more disposable or rechargeable batteries.

14 Cartridge (50) for application on a treatment site of a paste-type composition (C) to be irradiated, characterised in that it comprises a tube (30; 300) containing the paste-type composition (CF) to be irradiated and an irradiation device (10) according to any one of claims 1 to 13, said tube of paste-type

composition being able to be removably associated with said irradiation device.

15. Cartridge (50) according to claim 14, characterised in that said paste-type composition (C) is a photosensitive paste-type composition.

CLAIMS

1. Irradiation device (10; 100) of a paste-type composition (C) comprising:

- a container body (12; 120) equipped with a longitudinal through opening (14; 140) for the transit of a paste-type composition (C) to be irradiated and with a dispensing head (18; 180) extending from the longitudinal through opening (14; 140);

- at least one irradiation element (24; 240) arranged in the container body (12; 120) and suitable for irradiating the paste-type composition (C) in transit in the longitudinal through opening (14; 140); and

- an energy source (26; 260) also arranged in the container body (12; 120) and in electrical connection with the at least one irradiation element (24; 240); and

- means (28; 280) for switching said at least one irradiation element (24; 240) on/off;

characterised in that said means (28; 280) for switching said at least one irradiation element (24; 240) on/off comprises an end portion (21) extending from the container body (12; 120) and suitable for cooperating with a cap (40) able to be removably associated with the dispensing head (18; 180) of the irradiation device (10; 100) to switch on the at least one irradiation element (24; 240) at the time of decoupling of the cap (40) from the dispensing head (18; 180) of the irradiation device (10; 100).

2. Device (10) according to claim 1, characterised in that said container body (12) is made from semi-transparent plastic material.

3. Device (100) according to claim 1 or 2, characterised in that said container body (120) comprises a first substantially cylindrical portion (110) and a second portion (130) extending from said first portion (110).

4. Device (100) according to claim 3, characterised in that said second portion (130) comprises a substantially cylindrical central part (131) coaxial to the first portion (110) and in which said longitudinal through opening (140) is made and a frusto-conical part (132) extending from said substantially cylindrical part (131).

5. Device (100) according to claim 4, characterised in that said frusto-conical part (132), at an inner surface thereof, has one or more grooves (150).

6. Device (100) according to any one of claims 3 to 5, characterised in that said first portion (110) is made from opaque plastic material and said second portion (130) is made from transparent plastic material.

7. Device (10; 100) according to any one of the previous claims, characterised in that said dispensing head (18; 180) is externally threaded.

8. Device (10; 100) according to any one of the previous claims, characterised in that said

longitudinal through opening (14; 140) has an end (16; 160), opposite the one where the dispensing head (18; 180) extends, that is threaded for the removable coupling of a cartridge (30; 300) containing the paste-type composition (C) to be irradiated.

9. Device (10; 100) according to any one of the previous claims, characterised in that said at least one irradiation element (24; 240) is a light emitting diode.

10. Device (10; 100) according to claim 9, characterised in that said light emitting diode (24; 240) is a UV or RGB diode.

11. Device (10; 100) according to any one of the previous claims, characterised in that said energy source consists of one or more disposable or rechargeable batteries.

12 Cartridge (50) for application on a treatment site of a paste-type composition (C) to be irradiated, characterised in that it comprises a tube (30; 300) containing the paste-type composition (CF) to be irradiated and an irradiation device (10) according to any one of claims 1 to 11, said tube of paste-type composition being able to be removably associated with said irradiation device.

13. Cartridge (50) according to claim 12, characterised in that said paste-type composition (C) is a photosensitive paste-type composition.