CLAIMS

1. A device for the implementation of a flexible tubular structure made of reformable composite material, said flexible tubular structure being designed for passing from a first folded configuration to a second longitudinally developed operating configuration, obtaining a reformed tubular structure, the device comprising a reforming system characterized by a profile tapered according to a longitudinal direction, said tapered profile being slidingly engageable inside the flexible tubular structure made of reformable composite material, so that the longitudinal direction of the tapered profile substantially coincides with the longitudinal axis of the reformed tubular structure and so that the surface of any transversal section of the reformed tubular structure, in the second operating configuration, is larger with respect to the surface of the same transversal section of the flexible tubular structure made of reformable composite material in the first folded configuration.

2. The device according to claim 1, wherein the reformed tubular structure, in the second operating configuration, is characterized by having a substantially circular transversal section, that can be obtained by sectioning the reformed tubular structure according to a plane perpendicular to the longitudinal axis.

3. The device according to claim 1, wherein the reforming system comprises a fixed frame

outside the flexible tubular structure made of reformable composite material, said fixed frame being provided with external sliding means with respect to the outer wall of the flexible tubular structure made of reformable composite material, and wherein the tapered profile comprises internal sliding means with respect to the inner wall of the flexible tubular structure made of reformable composite material, said external sliding means and said internal sliding means being suitable for guiding and facilitating the passage of the flexible tubular structure made of reformable composite material.

4. The device according to claim 3, wherein the fixed frame comprises a primary fixed frame and a secondary fixed frame, said primary fixed frame and said secondary fixed frame being respectively equipped with said external sliding means configured so as to interfere with the internal sliding means, blocking the movements of the tapered profile in both a longitudinal direction with respect to the flexible tubular structure made of reformable composite material, and also in a direction orthogonal to said longitudinal direction, guaranteeing the sliding of the flexible tubular structure made of reformable composite material.

5. The device according to any of the claims from 3 to 4, wherein the external sliding means are rolls or wheels or bearings or bushings or skates

or supports coated with a low-friction material or any combination thereof.

6. The device according to any of the claims from 3 to 4, wherein the internal sliding means are rolls or wheels or bearings or bushings or skates or supports coated with a low-friction material or any combination thereof.

7. The device according to any of the previous claims, comprising a polymerization system of the flexible tubular structure made of reformable composite material impregnated with a polymerizable compound.

8. The device according to claim 7, wherein the polymerization system comprises at least one ultraviolet-ray lamp which acts on the flexible tubular structure made of reformable composite material for activating the polymerization process.

9. The device according to claim 7, wherein the polymerization system comprises at least one electric or infrared heater which acts on the flexible tubular structure made of reformable composite material for activating the polymerization process.

10. The device according to claim 7, wherein the polymerization system comprises at least one electron beam emission gun or at least one microwave generator which acts on the flexible tubular structure made of reformable composite material for activating the polymerization process.

11. A method for implementing a flexible tubular structure made of reformable composite material, the method comprising the following steps:

- preparing a flexible tubular structure made of reformable composite material in a first folded configuration;
- extending the flexible tubular structure made of reformable composite material causing it to acquire a second longitudinally developed operating configuration, exerting a pulling action along the substantially longitudinal direction of said flexible tubular structure;
- reforming the flexible tubular structure made of reformable composite material in the second operating configuration, obtaining a reformed tubular structure so that the surface of any transversal section of the reformed tubular structure, in the second operating configuration, is larger with respect to the surface of the same transversal section of the flexible tubular structure made of reformable composite material in the first folded configuration,

the method being characterized in that the step for reforming the flexible tubular structure is effected with the use of a profile tapered according to a longitudinal direction slidingly engageable inside the flexible tubular structure made of reformable composite material, so that the longitudinal direction of the tapered profile substantially coincides with the longitudinal axis of the reformed tubular structure.

12. The method according to claim 11, comprising a further step of impregnating the flexible tubular structure made of reformable composite material with a polymerizable compound.

13. The method according to claim 12, also comprising the step of polymerizing the compound by means of a thermal action or a chemical action or irradiation.

14. The method according to claim 13, wherein the step for polymerizing the compound is effected with at least one electron beam emission gun or with at least one ultraviolet-ray lamp.

15. The method according to claim 13, wherein the step for polymerizing the compound is effected with at least one electric or infrared-ray heater.

16. The method according to claim 13, wherein the step for polymerizing the compound is effected with at least one microwave radiation generator.

17. A system for the implementation of a flexible tubular structure made of reformable composite material, the system comprising a movable platform, a device according to any of the claims from 1 to 10, and a well.