a climber having a traction coupling with one of the cables and a motive force for propelling the climber by way of the traction coupling with the cable from one junction to another.

7. The modular tether according to claim 6 wherein:

the traction coupling between said climber and the cables may be decoupled for detaching the climber from the cable.

8. The modular tether according to claim 7, of a type for transporting cargo up and down the tether module, wherein:

said climber including an extendable claw for hold cargo.

9. The modular tether according to claim 8 wherein:

the extendable claw being retractable.

10. The modular tether according to claim 9 further comprising:

a taxi having roller coaster type wheels for coupling with one of the junctions and a motive force for propelling the taxi along the junction from one anchor to another and a first half of a fifth wheeler type coupler;

said climber including a second half of the fifth wheeler type coupler for coupling to said taxi.

11. The modular tether according to claim 1 further comprising:

a plurality of tension gauges, each tension gauge being juxtaposed between adjacent tether modules and coupled thereto for monitoring the tension therein.

12. The modular tether according to claim 1 further comprising:

a plurality of repair state monitors, the repair state monitors being juxtaposed between adjacent tether modules and coupled both thereto and to a central computer for monitoring the repair state of the modular tether.

13. The modular tether according to claim 6 further comprising:

a plurality of GPS sensors attached to said tether modules and/or junctions and/or climbers and coupled to a central computer for providing positional awareness.

14. The modular tether according to claim 6 further comprising:

a plurality of radio transmitters attached to said tether modules and/or junctions and/or climbers for transmitting to ground based receivers for providing positional awareness.

15. The modular tether according to claim 6 further comprising:

a plurality of inertial measurement units attached to said tether modules and/or junctions and/or climbers and coupled to a central computer for providing positional awareness.

16. The modular tether according to claim 1 further comprising:

a plurality of heat sinks coupled to said tether modules and/or junctions for managing the temperature of the modular tether.

17. The modular tether according to claim 1 further comprising:

a plurality of radiator panels and heat transfer units coupled to said tether modules and/or junctions for managing the temperature of the modular tether.

18. The modular tether according to claim 1 wherein:

the modular tether having scalable length by adding or removing one or more tether modules to or from the modular tether.

19. The modular tether according to claim 1 wherein:

said plurality of tether modules includes five or more of said tether modules; and

said plurality of junctions includes six or more of said junctions.

20. A process for increasing the tensile strength of a modular tether, the process comprising the following steps:

Step A: applying centripetal tension by means of a modular tether having a series of tether modules coupled to one another by junctions; while simultaneously

Step B: attaching a cable within one of the tether modules to the junction to which the tether module is coupled and tensioning the cable therewith for increasing the tensile strength of the tether module while the modular tether continues to apply the centripetal tension of said Step A.

21. A process for decreasing the tensile strength of a modular tether, the process comprising the following steps:

Step A: applying centripetal tension by means of a modular tether having a series of tether modules coupled to one another by junctions; while simultaneously

Step B: detaching a cable within one of the tether modules from the junction to which the tether module is coupled and de-tensioning the cable therefrom for decreasing the tensile strength of the modular tether while the modular tether continues to apply the centripetal tension of said Step A.