Claims

1. A modular structure, comprising:

a first module; and

a second module, said first and second modules moveably coupled to each other by an engagement assembly, said engagement assembly including a swivel plate positioned on the second module and a base plate on the first module;

wherein the first module is arranged to be nested within the second module when the modular structure is in an unextended position, and

wherein the first and second module are arranged to rotate relative to each other from the unextended position to an extended position.

2. The modular structure according to claim 1, wherein the first module is arranged to extend out of the second module when the modular structure is in the extended position.

3. The modular structure according to claim 1, wherein the second module is arranged to extend out of the first module when the modular structure is in the extended position.

4. The modular structure according to any one of the preceding claims, wherein the engagement assembly further comprises a rotating mechanism arranged to

allow rotation of the first module or the second module about at least one principal axis.

5. The modular structure according to any of the preceding claims, wherein the second module further comprises at least one detachable wall arranged to secure the first and second modules in either the unextended position or the extended position.

6. The modular structure according to any of the preceding claims, wherein the second module further comprises a plurality of pairs of corner castings.

7. The modular structure according to any of the preceding claims, wherein the second module is arranged to be of the same dimensions as a standard shipping container.

8. The modular structure according to any of the preceding claims, further comprising a third module moveably coupled to the second module, the third module is arranged to be nested within the second module when the modular structure is in the unextended position, and rotate relative to the second module from the unextended position to the extended position.

9. The modular structure according to any of the preceding claims, further comprising an exterior module moveably coupled to the second module, the

second module is arranged to be nested within the exterior module when the modular structure is in the unextended position.

10. The modular structure according to claim 9, wherein the exterior module is arranged to translate relative to the second module.

11. A building structure, comprising:

a plurality of modular structures arranged to be adjacent to each other; and

at least one binding member arranged to span across and couple adjacent modules,

wherein each of the plurality of modular structures comprises a first module, and a second module moveably coupled to the first module by an engagement assembly, the first module is arranged to be nested within the second module when the modular structure is in an unextended position, the first and second module are arranged to move relative to each other from the unextended position to an extended position, and

wherein at least one edge of one modular structure is aligned with a corresponding edge of the adjacent modular structure;

wherein the engagement assembly comprises a rotating mechanism arranged to allow rotation of the first or the second module about at least one principal axis.

12. The building structure according to claim 11, wherein the first module is arranged to extend out of the second module when the modular structure is in the extended position.

13. The building structure according to claim 11, the second module is arranged to extend out of the first module when the modular structure is in the extended position.

14. The building structure according to any one of claims 11 to 13, wherein the binding member comprises at least one connection rod arranged to be inserted through at least one edge of the second module, the connection rod comprises an internally threaded end and an externally threaded end, the externally threaded end of at least one connection rod is arranged to be secured to a base of an adjacent second module.

15. The binding structure according to claims 11 to 13, wherein the binding member comprises an assembly of at least one tension cable and at least one pair of end anchors.

16. The building structure according to any one of claims 11 to 15, further comprising a third module moveably coupled to the second module, the third module is arranged to be nested within the second module when the modular

structure is in the unextended position, and rotate relative to each other from the unextended position to the extended position.

17. The building structure according to any one of claims 11 to 16, further comprising an exterior module moveably coupled to the second module, the second module is arranged to be nested within the exterior module when the modular structure is in the unextended position.

18. The building structure according to claim 17, wherein the exterior module is arranged to translate relative to the second module.