Claims

1. A modular building structure, comprising:

a first module, and

a second module, said first and second modules moveably coupled to each other by an engagement assembly;

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

the first and second modules are positioned adjacent to each other in an extended position;

wherein the engagement assembly further comprises

a guide mechanism arranged to allow relative translation of the first and second modules from the unextended position to an extended position;

at least one binding member configured to extend through an upper corner of the second module to a base corner of the first module, such that the binding member is arranged to span across at least one edge of the first module and couple to the second module, said at least one binding member arranged to secure the first and second modules in a secured position; and

wherein at least one edge of one modular building structure is aligned with a corresponding edge of an adjacent modular building structure.

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

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

4. The modular building structure according to claim 1, wherein the guide mechanism is further arranged to allow vertical translation of the second module relative to the first module.

5. The modular building structure according to claim 4, further comprising at least one external column positioned adjacent the guide mechanism, the external column is arranged to support the second module when the modular building structure is in the extended position.

6. The modular building structure according to claim 1, wherein the secured position is either the unextended position or the extended position.

7. The modular building structure according to claim 1, 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 the first module.

8. The modular building structure according to claim 1, wherein the binding member comprises an assembly of at least one tension cable and at least one pair of end anchors.

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

10. The modular building structure according to claim 9, wherein the binding member is arranged to engage the pair corner castings.

11. The modular building 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.

12. A building structure, comprising:

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

wherein each of the plurality of modular building structures comprise 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 building structure is in an unextended position, the engagement assembly further comprises a guide mechanism arranged to allow translation of the first or second module relative to each other from the unextended position to an extended position;

each of the plurality of modular building structures further including at least one binding member configured to extend through an upper corner of the first module to a base corner of the second module, such that the binding member is arranged to span across and couple the first and second modules, said at least one binding member arranged to secure the first and second modules in a secured position; and

wherein at least one edge of one modular building structure is aligned with a corresponding edge of the adjacent modular structure and secured together with an interlocking plate placed over upper corner castings of the adjacent modular structures.

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

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

15. The building structure according to any one of claims 12 to 14, wherein the first module is adjacent to the second module when the modular building structure is in the extended position.