THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A stair assembly comprising a plurality of adjacent stair modules; each of the stair modules comprising first and second side abutments and spanning therebetween a stair tread having first and second ends respectively connected to said first and second side abutments; each of said side abutments including at least one abutment surface, the stair modules comprising at least first and second stair modules, the stair tread of the second stair module when disposed adjacent the first stair module is disposed in an elevated position relative to the stair tread of the first stair module, wherein the first and second stair modules are interconnected via auxiliary modules with each auxiliary module comprising a bearing surface for the second stair module and a contact surface for one of the stair modules, the side abutments of the second stair module supported on the bearing surfaces of the auxiliary modules, the contact surfaces of the auxiliary modules connected to the side abutments of the first stair module.

2. A stair assembly according to claim 1 wherein each of the modules comprises a recess defined by each said first and second side abutments, the recess receiving and retaining one of the ends of the stair tread within.

3. A stair assembly according to claim 2 wherein each module is connected to an adjacent module via opposing bearing surfaces on each module.

4. A stair assembly according to claim 3 wherein each abutment comprises a cubic formation manufactured from co-operating angle sections arranged to define said recess which retains one of the ends of the stair treads.

5. A stair assembly according to claim 4 wherein the angle sections have spaced apart bolt holes.

6. A stair assembly according to claim 5 wherein the first and second ends of the stair treads are each connected to the side abutments via bolt fasteners engaging said bolt holes.

7. A stair assembly according to claim 6 wherein each side abutment of one of the modules is

connected to one of the side abutments of another one of the modules via one of the auxiliary modules.

8. A stair assembly according to claim 7 wherein one stair tread of one module is disposed in an elevated position relative to the stair tread of an adjacent module when a plurality of stair modules are engaged.

9. A stair assembly according to claim 8 wherein two steps are formed using two stair modules and one auxiliary module.

10. A stair assembly according to claim 9 wherein each stair tread is formed from a channel shaped section.

11. A stair assembly according to claim 10 wherein, the side abutments of each module are manufactured from connected lengths of equal angle sections.

12. A stair assembly according to claim 11 wherein, the abutments are either square or rectangular.

13. A stair assembly according to claim 12 wherein, each module having the stair tread has connected thereto a modular hand railing.

14. A stair assembly according to claim 13 wherein, each modular hand railing has a first end connected via at least one fastener to one of the stair modules and a second end terminating in a member for hand gripping.

15. A stair assembly according to claim 14 wherein, each modular railing is connected to an adjacent modular hand railing.

16. A stair assembly according to claim 15 wherein each modular hand railing is P shaped.

17. A stair module for use in the construction of a stair assembly formed from at least two said stair modules, each module comprising first and second side abutments and spanning

therebetween a stair tread; the stair tread terminating in first and second ends; the side abutments each comprising an end wall and side walls defining a cubic formation forming an internal space which receives and retains one of the ends of the stair tread;
wherein, the side abutments of each module are comprised of adjacent L-shaped sections; and wherein each L-shaped section is, when connected to form the side abutments, disposed normally to one of the adjacent L-shaped sections.

18. A stair module according to claim 17 wherein the side abutments include an array of openings which receive fasteners which enable fastening of the stair treads to said side abutments and one module to an adjacent auxiliary module.

19. A stair module according to claim 18 wherein the side abutments of the stair modules are manufactured from joined angle sections which include spaced apart openings for said bolts.

20. A stair module according to claim 19 wherein the stair tread comprises a channel section.

21. A method of assembly of a modular stair assembly, comprising a plurality of stair modules;
the method comprising the steps of:
a) providing the stair modules, each of the modules comprising first and second side abutments and spanning therebetween a stair tread; the stair tread comprising a channel section terminating in first and second ends; the side abutments each comprising an outer wall and side walls defining a cubic formation forming an internal space which receives and retains the stair tread;
b) providing auxiliary modules each having a vertical contacting surface and a horizontal bearing surface; and
c) attaching the contact surfaces of one of the auxiliary modules to the side abutments of a first one of said modules, and attaching the side abutments of a second one of the modules to the bearing surfaces of the one of the auxiliary modules such that the first and second modules are in cascading relationship.