We claims

~~1. A beam (1) of predetermined shape for a furniture system, comprising plurality of channels configured on its surface to accommodate nuts to fix other components of the furniture system, wherein said beam (1) is adapted to provide plurality of furniture systems structurally variable in accordance with functional requirements of users of the furniture system.~~

~~2. The beam (1) as claimed in claim 1, wherein the channels (2a, 2b, 2c, 2d, 2e, and 2f) of beam (1) comprises flanges (3) extending outside for holding said furniture components.~~

~~3. The beam (1) as claimed in claim 1, wherein said beam is preferably having rectangular cross section extruded using materials selected from a group comprising aluminum, Al. 6063 (T6), Al. 6005 (T6).~~

~~4. The beam (1) as claimed in claim 1, wherein said beam has drilled holes at its surface for nut-rivets to pass through for connecting components of the furniture system.~~

1. A furniture system comprising:~~es of~~

a plurality of leg assemblies (4) as supporting means of the furniture system;

a beam (1) runnings through the system~~, wherein the beam (1)~~ comprisinges a plurality of channels configured on its surface to accommodate ~~nuts to fix other~~ components of the furniture system;

a plurality of connectors (5) for connecting the beam (1) with straight legs (8), wherein the plurality of connectors (5) are joined with straight legs (8) being configured to form junctions of the furniture system;

a plurality of panels (24) mounted onto a cantilever brackets (7), wherein a plurality of configurations of the furniture system are obtained by using various combinations of said components (1, 4, 5, 7, 8, and 24);

characterized in that;

a plurality of screen brackets (6) being capable of fixing on a top channel (2a) of the beam (1);

a plurality of cantilever brackets (7) are hooked to the beam (1) at a top channel (2a) and integrated using nuts inserted at a side channel (2d).

~~5. and adapted to provide plurality of furniture systems structurally variable in accordance with functional requirements of users of the furniture system.~~

~~6. The furniture system as claimed in claim 5, wherein said components are plurality of legs (4), plurality of inline connectors (5), plurality of screen brackets (6), plurality of cantilever brackets (7), plurality of straight legs (8), and wire management arrangement (9).~~

~~7.~~2. The furniture system as claimed in claim 1~~6~~, wherein said leg (4) assembly comprises;

a. a top and a bottom connectors (4a and 4b) ~~screwed~~ fixed to ~~top~~ aluminum extrusion (4e and 4f) at their respective sides using prongs (4c) and~~one end and to bottom aluminum extrusion at other end,~~

~~b. bottom connector (4b) connecting with other ends of top aluminum extrusion and bottom aluminum extrusion to prongs (4c) of the bottom connector (4b), and~~

~~c.~~b. leveler (4d) fixed~~is connected~~ to ~~bottom of~~ the bottom connector (4b) for providing support to the leg assembly (4).

~~8.~~3. The furniture system as claimed in claims 2~~6 and 7~~, wherein ~~said inline connector (5) is adapted to connect the beam (1), and the straight leg (8) and~~ the beam (1) has tapped holes~~d~~ (25) being configured to ~~for~~ connect~~ing~~ the connector (5)~~with beam (1)~~.

4. The furniture system as claimed in claim 1, wherein the connector (5) is further configured to attach perpendicular beams (27) to the beam (1).

5. The furniture system as claimed in claim 1, wherein the connector (5) has open sleeves (26) to pass through bolts to fasten the connector (5) to the beam (1) through the tapped holes (25).

6. The furniture system as claimed in claim 1, wherein the furniture system comprises plurality of screen brackets (6), wire management arrangement (9) and storage arrangements (28).

~~9.~~7. The furniture system as claimed in claim 1 or 2~~6~~, wherein the screen brackets (6) are~~is~~ integrated with the beam (1) ~~mounted~~ at top channel (2a) ~~of the beam (1) and is connected using nuts and screwed into the top channel (2a)~~ and the wire arrangement (9) is connected to sides of the beam (1).

~~10. The furniture system as claimed in claim 6, wherein the cantilever brackets (7) are hooked to top channel (2a) of the beam (1) and screwed using nuts inserted into right bottom channel (2d).~~

~~11. The furniture system as claimed in claim 5, wherein the beam (1) is connected with cantilever brackets (7), wire carriers, vertical posts, legs, screens, and storages to form furniture system.~~

~~12. The furniture system as claimed in claim 5, wherein the channels (2a, 2b, 2c, 2d, 2e, and 2f) of beam (1) comprises flanges (3) extending outside for holding said furniture components.~~

~~13.~~8. The furniture system as claimed in claim 76, wherein said wire management arrangement (9) comprises~~ing~~, horizontal wire carrier (9a), horizontal wire carrier assembly (9b) with a plastic clip, vertical wire carrier (9c), vertical wire carrier cover (9d), raceway brackets (9e), and raceway connector (9f).

~~14.~~9. The furniture system as claimed in claim 8~~13~~, wherein the raceway brackets (9e) are fixed to the beams (1) using screws, and its lower part is connected to the horizontal wire carriers (9a) to manage wires of the furniture system.

~~15.~~10. A method of assembling a furniture system, said method comprising acts of;

a. connecting a plurality of legs (4) to beam (1) using screws at sides ~~facing each other~~;
b. fixing screen brackets (6) on ~~inserting plurality of nuts into~~ top channel (2a) of the beam (1) by inserting screws ~~and~~ through holes of screen brackets (6) ~~and joining at predetermined locations~~ in the top channel (2a);
c. connecting a plurality of cantilever brackets (7) by hooking at top channel (2a) ~~of the beam (1)~~ and joining at side ~~fixing at right bottom~~ channel (2d) of the beam (1);
d. attaching a plurality of connectors (5) to the beam (1) at sides to connect perpendicular beams (27);
e. connecting the beam (1) with straight legs (8) using the plurality of connectors (5) for connecting the beam (1) with straight legs (8), and
~~d.~~f. mounting a plurality of~~placing and joining~~ panels onto the cantilever brackets (7), wherein a plurality of configurations of the furniture system are obtained by using

various combinations of said components (1, 4, 5, 7, 8 and 24). ~~to configure a furniture system.~~

~~16.~~11. The method as claimed in claim 10~~15~~, wherein the ~~inline~~ connectors (5) are joined~~connected~~ with straight legs (8~~9~~)~~, wherein said straight legs (9) are~~ being configured to form junctions of the furniture system.

~~17. The method as claimed in claim 15, wherein the inline connectors (5) are connected with beam (1) to configure plurality of furniture systems structurally variable in accordance with functional requirements of users of the furniture system.~~