CLAIMS

1. A trophy assembly comprising:

a first trophy component having a first connector, the first connector is one of a male connector or a female connector, the first trophy component and the first connector comprise a single molded unit, wherein the first trophy component is a top component of the trophy assembly;

a second trophy component having a second connector, the second connector is the other of the male or female connector; and

the first and second connectors are configured as a reversible locking mechanism for engaging the first and second trophy components to assemble and disassemble the trophy assembly, wherein the male connector comprises a first configuration which matches with a second configuration of the female connector such that when the male connector is mated with the female connector by inserting the male connector into the female connector, the first and second trophy components

are engaged in position by

inserting the first trophy component into the second trophy component one of the trophy components and rotating at least one of the trophy components from an unlocked position in a locking direction to a locked position, wherein in the lock position the first and second components are securely engaged, and

are disengaged by

rotating one of the trophy components from the locked position in an unlocking direction to the unlocked position and separating the components, and

wherein the male includes a neck comprising first and second protrusions, and

wherein the female connector comprises an opening and first and second grooves, the first and second grooves each comprises a first segment in an inserting direction and a second segment in a rotating direction, the second segment comprises a first end in communication with the first segment and a second end,

the opening and the first segments of the first and second grooves accommodate insertion of the male connector for engagement of the trophy components in the unlocked position,

the second segments of the first and second grooves accommodate rotating the male connector in the locking direction, wherein when the first and second protrusions reach the second ends of the first and second grooves, the first and second trophy components are in the locked position, wherein the second segments of the first and second grooves each comprises

a tapered profile in which first end is wider than the second end,

a slot at the second end to accommodate one protrusion of the male connector,

the height of the second segment before the slot is less than a height of the protrusion to securely lock the protrusion in slot when in the lock position.

2. The trophy assembly of claim 1 wherein the male connector is applied or coupled to the first trophy component and the female connector is applied or coupled to the second trophy component.

3. The trophy assembly of claim 2 wherein the first configuration of the male connector comprises a column member having a first end and a second end, a first flange and a second flange disposed at the second end of the column member, wherein the first flange and second flange are positioned in diametric opposition with each other.

4. The trophy assembly of claim 3 wherein the first trophy component is an ornamental structure having a first end and a second end and wherein the male connector is disposed at the second end of the ornamental structure.

5. The trophy assembly of claim 4 wherein the male connector is integrally formed at the second end of the ornamental structure.

6. The trophy assembly of claim 3 wherein the second configuration of the female connector comprises a housing member and a base disposed below the housing member, wherein the housing member is in the form of a cylindrical structure having a first end, a second end, an outer surface and an internal surface, wherein the second end of the housing member is coupled or connected to the base.

7. The trophy assembly of claim 6 wherein the housing member comprises a first surface defined at the first end, a second surface defined at the second end, a central cavity, a first guide rail, a second guide rail, a first track and a second track, wherein the central cavity, the first guide rail and the second guide rail are configured and dimensioned to receive the column member, the first flange and the second flange of the male connector.

8. The trophy assembly of claim 7 wherein:

the first guide rail and the second guide rail are provided in the form of vertical grooves in communication with the central cavity, and the first guide rail and the second guide rail are positioned such that the first guide rail and second guide rail are in diametric opposition with each other; and

the first track and the second track are provided in the form of horizontal grooves which are radially positioned around the central cavity, wherein the first track and the second track are in diametric opposition from each other, the first track and the second track each includes a proximal end and a distal end, wherein the proximal end of the first or second track is positioned adjacent and extends into the first or second guide rail and the distal end of the first or second track is oppositely positioned from the proximal end.

9. The trophy assembly of claim 7 wherein the base of the female connector comprises an opening which extends through first and second surfaces of the base, and wherein the opening is concentrically position within the central cavity of the housing member and is configured to allow a fastener element to be inserted therethrough and has its fastener head rests within the opening.

10. The trophy assembly of claim 6 wherein the second trophy component comprises a support base or a decorative piece and wherein the female connector is applied to the support base or decorative piece as part of a top portion of the support base or decorative piece.

11. The trophy assembly of claim 6 wherein the second trophy component comprises a support base and wherein the female connector is provided as a standalone coupling unit disposed over the support base.

12. The trophy assembly of claim 3 comprising a third trophy component and wherein the locking mechanism further comprises a second female connector having a third configuration which matches with the first configuration of the male connector.

13. The trophy assembly of claim 12 wherein the third trophy component comprises a first end and a second end and wherein the second female connector comprises a tubular element in the form of a cylindrical hollow tube extending from the first end towards the second end of the third trophy component, wherein the tubular element comprises a first opening and a second opening defining a central cavity, a first guide rail and a second guide rail provided in the form of vertical grooves in communication with the central cavity, and wherein the central cavity, the first guide rail and the second guide rail of the tubular element are dimensioned to receive the column member, the first flange and the second flange of the male connector.

14. The trophy assembly of claim 1 wherein the first configuration of the male connector comprises a column member having a first end and a second end, a first flange and a second flange disposed at the second end of the column member, wherein the first flange and second flange are positioned in diametric opposition with each other.

15. The trophy assembly of claim 14 wherein the first trophy component is an ornamental structure having a first end and a second end, and wherein the male connector is disposed at the second end of the ornamental structure.

16. The trophy assembly of claim 15 wherein the column member comprises an outer surface that is defined with one or more slots for accommodating a fastener element.

17. The trophy assembly of claim 16 wherein the one or more slots comprise a first horizontal slot which extends in a first direction, and a vertical slot which extends in a second direction orthogonal to the first direction and from the second end to the first end of the column member and passes through the first horizontal slot, wherein the first horizontal slot includes a diameter adapted to accommodate a fastener head of a first size while the vertical slot includes a diameter which is substantially large to accommodate a shank or shaft of the fastener element.

18. The trophy assembly of claim 17 wherein the second trophy component comprises a first end and a second end and wherein the female connector comprises a tubular element in the form of a cylindrical hollow tube extending from the first end towards the second end of the second trophy element, wherein the tubular element comprises a first opening and a second opening defining a central cavity, a first guide rail and a second guide rail provided in the form of vertical grooves in communication with the central cavity, and wherein the central cavity, the first guide rail and the second guide rail of the tubular element are configured and dimensioned to receive the column member, the first flange and the second flange of the male connector.

19. The trophy assembly of claim 18 comprising a third trophy component, wherein the third trophy component comprises a top surface, a bottom surface and lateral surfaces in between the top and bottom surfaces, wherein the top and bottom surfaces of the third trophy component are substantially planar.

20. The trophy assembly of claim 19 wherein the top surface of the third trophy component comprises a bore positioned at about the centre of the top surface of the third trophy component and has a size which is sufficiently large to accommodate the shank of the fastener element.

21. The trophy assembly of claim 19 wherein the first trophy component is an ornamental structure, the second trophy component is a riser and the third trophy comprises a support base.

22. A method for assembling a trophy comprising:

providing a first trophy component having a first connector, the first connector is one of a male connector or a female connector, the first trophy component and the first connector comprise a single molded unit, wherein the first trophy component is a top component of the trophy assembly;

providing a second trophy component having a second connector, the second connector is the other of the male or female connector; and

configuring the first and second connectors as a reversible locking mechanism for engaging the first and second trophy components to assemble and disassemble the trophy assembly, wherein the male connector comprises a first configuration which matches with a second configuration of the female connector such that when the male connector is mated with the female connector by inserting the male connector into the female connector, the first and second trophy components

are engaged in position by

inserting the first trophy component into the second trophy component one of the trophy components and rotating at least one of the trophy components from an unlocked position in a locking direction to a locked position, wherein in the lock position the first and second components are securely engaged, and

are disengaged by

rotating one of the trophy components from the locked position in an unlocking direction to the unlocked position and separating the components, and

wherein the male includes a neck comprising first and second protrusions, and

wherein the female connector comprises an opening and first and second grooves, the first and second grooves each comprises a first segment in an inserting direction and a second segment in a rotating direction, the second segment comprises a first end in communication with the first segment and a second end,

the opening and the first segments of the first and second grooves accommodate insertion of the male connector for engagement of the trophy components in the unlocked position,

the second segments of the first and second grooves accommodate rotating the male connector in the locking direction, wherein when the first and second protrusions reach the second ends of the first and second grooves, the first and second trophy components are in the locked position, wherein the second segments of the first and second grooves each comprises

a tapered profile in which first end is wider than the second end,

a slot at the second end to accommodate one protrusion of the male connector,

the height of the second segment before the slot is less than a height of the protrusion to securely lock the protrusion in slot when in the lock position.

23. The method of claim 22 wherein the first configuration of the male connector comprises a column member having a first end and a second end, a first flange and a second flange

disposed at the second end of the column member, wherein the first flange and second flange are positioned in diametric opposition with each other.

24. The method of claim 23 wherein the second configuration of the female connector comprises a housing member and a base disposed below the housing member, wherein the housing member is in the form of a cylindrical structure having a first end, a second end, an outer surface and an internal surface, wherein the second end of the housing member is coupled or connected to the base.

25. The method of claim 24 wherein the housing member comprises a first surface defined at the first end, a second surface defined at the second end, a central cavity, a first guide rail, a second guide rail, a first track and a second track, wherein the central cavity, the first guide rail and the second guide rail are configured and dimensioned to receive the column member, the first flange and the second flange of the male connector.

26. The method of claim 25 wherein the first track and the second track are circumferentially extending and oppositely positioned from each other in inner sidewall of the housing member, and the first track and the second track each comprises a proximal end and a distal end, and wherein the proximal end of the first track is in communication with the first guide rail while the proximal end of the second track is in communication with the second guide rail.

27. The method of claim 26 comprising:

joining the male connector with the female connector to form a first partially assembled unit, wherein joining the male connector and the female connectors comprises

positioning the first flange to the proximal end of the first track and the second flange to the proximal end of the second track, and

performing the twisting motion in a first direction to move the first flange from the proximal end to the distal end of the first track and to move the second flange from the proximal end to the distal end of the second track such that at least the first and second trophy components are securely engaged.

28. The method of 27 comprising providing a third trophy component, wherein the third trophy component comprises a first end and a second end and a second female connector having a tubular element in the form of a cylindrical hollow tube extending from the first end towards the second end of the third trophy component, wherein the tubular element comprises a first opening and a second opening defining a central cavity, a first guide rail and a second guide rail provided in the form of vertical grooves in communication with the central cavity, and wherein the central cavity, the first guide rail and the second guide rail of the tubular element are configured and dimensioned to receive the column member, the first flange and the second flange of the male connector.

29. The method of claim 28 comprising:

joining the male connector with the second female connector to form a first partially assembled unit prior to joining the male connector with the female connector, wherein forming the first partially assembled unit comprises

inserting the first flange and the second flange of the male connector through the first guide rail and second guide rail respectively of the second female connector, wherein a lower portion of the column member with the first and second flanges are exposed and extend beyond the tubular element.

30. The method of claim 29 wherein the first trophy component is an ornamental structure having a first end and a second end and wherein the male connector is disposed at the second end

of the ornamental structure, the second trophy component is a support base and wherein the first female connector is adapted as part of a top surface of the support base and the third trophy component is a riser.

31. The method of claim 29 wherein the first trophy component is an ornamental structure having a first end and a second end and wherein the male connector is disposed at the second end of the ornamental structure, the second trophy component is a decorative piece configured to include the female connector.

32. The method of claim 31 wherein the base of the ~~first~~ female connector comprises an opening which extends through the first and second surface of the base and is concentrically position within the central cavity of the housing member, wherein the opening is configured to accommodate a fastener element.

33. The method of claim 32 comprising:

providing a fourth trophy component which comprises a support base, wherein the support base comprises a bore defined on a top surface of the support base; and

joining the decorative piece with the support base to form a second partially assembled unit, wherein forming the second partially assembled unit comprises

inserting a first fastener element through the central cavity of the housing member and pass through the opening of the base as well as the bore of the support base, and

coupling a second fastener element to the first fastener element to secure the connection between the support base and the decorative piece.

34. The method of claim 29 wherein the first trophy component is an ornamental structure having a first end and a second end and wherein the male connector is disposed at the second end of the ornamental structure, the second trophy component is a standalone coupling unit and is configured with the female connector while the third trophy component is a riser.

35. The method of claim 34 wherein the base of the female connector comprises an opening which extends through the first and second surface of the base and is concentrically position within the central cavity of the housing member, wherein the opening is configured to accommodate a fastener element.

36. The method of claim 35 comprising:

providing a fourth trophy component which comprises a support base, wherein the support base comprises a bore defined on a top surface of the support base; and

joining the coupling unit with the support base to form a second partially assembled unit, wherein forming the second partially assembled unit comprises

inserting a first fastener element through the central cavity of the housing member and pass through the opening of the base as well as the bore of the support base, and

coupling a second fastener element to the first fastener element to secure the connection between the support base and the coupling unit.

37. The method of claim 23 wherein the column member comprises an outer surface that is defined with at least one horizontal slot and a vertical slot which extends from the second end to the first end of the column member.

38. The method of claim 37 wherein the second trophy component comprises a first end and a second end and the female connector having a tubular element in the form of a cylindrical hollow tube extending from the first end towards the second end of the second trophy component, wherein the tubular element comprises a first opening and a second opening defining a central cavity, a first guide rail and a second guide rail provided in the form of vertical grooves in communication with the central cavity, and wherein the central cavity, the first guide rail and the second guide rail of the tubular element are configured and dimensioned to receive the column member, the first flange and the second flange of the male connector.

39. The method of claim 38 comprising:

inserting a first fastener element through the vertical slot and have its fastener head rests on the horizontal slot while a shaft of the first fastener element extends beyond the second end of the male connector;

joining the male connector with the first female connector to form a first partially assembled unit, wherein forming the first partially assembled unit comprises

inserting the first flange and the second flange of the male connector through the first guide rail and second guide rail respectively of the second female connector, wherein a lower portion of the column member with the first and second flanges as well as lower portion of the shaft of the first fastener element are exposed and extend beyond the tubular element.

40. The method of claim 39 comprising:

providing a third trophy component, wherein the third trophy component comprises a bore defined on a top surface of the third trophy component; and

joining the first partially assembled unit with the third trophy component, wherein joining the first partially assembled unit with the third trophy component comprises

inserting the lower portion of the first fastener element through the bore of the third trophy component,

coupling a second fastener element to the first fastener element through the rotating motion to secure the connection between the first partially assembled unit and the third trophy component.