

Claims

1. An apparatus for securing a male-female connection, comprising:
 - (a) a female connector comprising a securing actuator section;
 - (b) a male connector;
 - (c) one or more anchoring ledges; and
 - (d) at least one rotatable gear.
2. Apparatus according to claim 1, wherein said rotatable gear comprises or has attached a void portion suitable to house an anchoring ledge provided opposite to it.
3. Apparatus according to claim 2, wherein a gap is formed in the gear such that the void section is provided with an opening the orientation of which changes with the rotation of the gear.
4. Apparatus according to claim 2, comprising at least one or more sprockets peripherally arranged around the gear.
5. Apparatus according to claim 1, wherein the at least one or more rungs are formed on the female connector.
6. Apparatus according to claim 1, wherein the at least one or more rungs are formed on the male connector and is suitable to move relative to the gears when the male connector slides inside the female connector.
7. Apparatus according to claim 5, wherein at least one rail or guide is formed on the interior of the female connector.
8. Apparatus according to claim 6, wherein a track is provided between a rail or guide and one or more rung(s), along which a gear may travel longitudinally.
9. Apparatus according to claim 1, comprising two of each of anchoring ledges, ladder and rotatable gear.
10. Apparatus according to claim 1, wherein each of the female connector section and the male connector is coupled to an element of a fluids-transfer system.

11. Apparatus according to claim 1, wherein one or both of the female connector section and the male connector are integral part of an element of a fluids-transfer system.
12. Apparatus according to claim 1, wherein the female connector section is connected to a syringe.
13. Apparatus according to claim 1, wherein the female connector section is connected to a female or male luer or luer-lock port.
14. Apparatus according to claim 1, wherein the female connector section is connected to tubing.
15. Apparatus according to claim 1, wherein the female connector section is connected to a spike.
16. Apparatus according to claim 1, wherein the male connector is connected to a vial adaptor.
17. Apparatus according to claim 1, wherein the male connector is connected to a spike.
18. Apparatus according to claim 1, wherein the male connector is connected to a female or male luer or luer-lock port.
19. Apparatus according to claim 1, wherein the male connector is connected to tubing.
20. Apparatus according to claim 1, wherein the axis around which the at least one rotatable gear rotates is essentially perpendicular to the plane in which lies the axis along which the female and male connectors slide.
21. An element of a fluids-transfer system coupled, or otherwise connected to, a female connector section as claimed in claim 1.
22. An element of a fluids-transfer system coupled, or otherwise connected to, a male connector as claimed in claim 1.
23. A drug-transfer system, comprising apparatus as claimed in claim 1.
24. A syringe adaptor, comprising apparatus as claimed in claim 1.
25. A tubing, comprising apparatus as claimed in claim 1.
26. Apparatus according to claim 1, wherein the rotatable gear mechanism comprises two rungs and one sprocket.
27. Apparatus according to claim 1, wherein the rotatable gear mechanism comprises at least one indentation suitable to be engaged by a rung.
28. Apparatus according to claim 1, wherein the rotatable gear mechanism comprises a rung which is adapted to be engaged by two sprockets.

29. Apparatus according to claim 1, wherein the rotatable gear mechanism comprises a rung adapted to engage an indentation.
30. Apparatus according to claim 1, wherein the anchoring ledges are provided on the male connector and the rotating gears are located on the female connector.
31. Apparatus according to claim 1, wherein the anchoring ledges are provided on the female connector and the rotating gears are located on the male connector.
32. Apparatus according to claim 1, wherein the rotatable gear is rotatably attached to an axis positioned at a radial distance from the center axis of said gear.