Claims

1. An apparatus for providing a secure male-female connection, comprising:

(a) a female connector comprising a securing actuator section displaceable therewithin;

(b) a male connector comprising at least one anchoring ledge;

(c) said securing actuator section comprising at least one rotatable gear having one or more sprockets and a void portion, said void portion being configured to receive therewithin, through a gap formed in said at least one rotatable gear, said at least one anchoring ledge, said at least one rotatable gear being configured to rotate and change an orientation of the gap with the anchoring ledge received within the void portion, thereby locking the anchoring ledge therewithin.

2. Apparatus according to claim 1, wherein each of the female connector and the male connector is coupled to an element of a fluids-transfer system.

3. Apparatus according to claim 1, wherein one or both of the female connector and the male connector are integral part of an element of a fluids-transfer system.

4. Apparatus according to claim 1, wherein the female connector is connected to one of the following:

(a) a syringe;

(b) a female luer or luer-lock port or a male luer or luer-lock port;

(c) tubing; and

(d) a spike.

5. Apparatus according to claim 1, wherein the male connector is connected to one of the following:

(a) a vial adaptor;

(b) a spike;

(c) a female luer or luer-port or a male luer or luer-lock port; and

(d) tubing.

6. Apparatus according to claim 1, wherein an axis around which the at least one rotatable gear rotates is essentially perpendicular to a plane in which lies another axis along which the female and male connectors slide.

7. An element of a fluids-transfer system coupled, or otherwise connected to, the connector as claimed in claim 10.

8. An element of a fluids-transfer system comprising the apparatus as claimed in claim 1, wherein the fluids-transfer system is one of:

(a) a drug transfer system;

(b) a syringe adaptor; and

(c) a tubing system.

9. Apparatus according to claim 1, wherein the at least one rotatable gear is a component of a mechanism that comprises at least one of the following:

(a) two rungs and one sprocket;

(b) at least one indentation suitable to be engaged by a rung;

(c) a rung which is adapted to be engaged by two sprockets; and

(d) a rung adapted to engage an indentation.

10. A connector for providing a secure male-female connection in a fluid-transfer system, the connector comprising:

at least one rotatable gear comprising a void portion configured to receive therewithin, through a gap formed in said at least one rotatable gear, at least one anchoring ledge associated with another connector of the fluid-transfer system, said at least one rotatable gear being configured to rotate and change an orientation of the gap with the anchoring ledge received within the void portion, thereby locking the anchoring ledge therewithin.