## CLAIMS

1. A closed system transfer device comprising:

a first adaptor configured to attach to a first reservoir, the first adaptor defining a first passage and comprising a first septum that seals an end of the first passage;

a second adaptor configured to attach to a second reservoir; the second adaptor comprising a housing having an interior, the housing defining a second passage and comprising a second septum that seals an end of the second passage;

a carrier movable in the interior of the second adaptor, the carrier defining a chamber that contains at least a portion of the second septum; and

a needle disposed in the interior of the second adaptor, the needle having a needle opening,

the interior of the second adaptor adapted to receive the first adaptor in a telescoping manner, with the first adaptor insertable into the second adaptor,

the carrier displaceable in the interior of the second adaptor, and relative to the needle, by the first adaptor when the first adaptor is inserted into the second adaptor,

the carrier displaceable within the second adaptor between a first position, in which the first septum abuts the second septum and the needle opening is sealed inside the second passage, and a second position, in which the first septum abuts the second septum and the needle opening is in fluid communication with the first passage to connect the first adaptor and the second adaptor in a fluid path open state,

wherein the housing defines at least one locking window configured to retain the carrier in one of the first position and the second position with at least a portion of the carrier visible through the at least one locking window to visually confirm that the carrier is in said one of the first position and the second position.

2. The closed system transfer device according to claim 1 comprising a releasable lock that locks the first adaptor inside the second adaptor after the first adaptor is inserted into the second adaptor.

3. The closed system transfer device according to claim 2, wherein the releasable lock locks the first adaptor inside the second adaptor when the carrier is displaced to the second position.

4. The closed system transfer device according to claim 2 or 3, wherein the releasable lock comprises a first locking element on the carrier and a second locking element in the housing.

5. The closed system transfer device according to any of claims 2-4, wherein the releasable lock comprises a first locking element on the first adaptor and a second locking element on the second adaptor.

6. The closed system transfer device according to any of claims 2-5, wherein the releasable lock is released by pressing at least one side of the housing radially inwardly.

7. The closed system transfer device according to claim 6, wherein the at least one side of the housing comprises at least one push button.

8. The closed system transfer device according to claim 7, wherein the at least one push button is depressible radially inwardly to disengage a portion of the carrier from a section of the housing.

9. The closed system transfer device according to any of the previous claims, wherein the second adaptor comprises a third septum that is axially spaced from the second septum.

10. The closed system transfer device according to claim 9, wherein the needle opening is sealed between the second septum and the third septum when the carrier is in the first position.

11. The closed system transfer device according to any of the previous claims further comprising a female Luer connector connected to the housing of the second adaptor.

12. The closed system transfer device according to any of claims 1-11, wherein the first adaptor comprises a male Luer connector or a vial spike.

13. The closed system transfer device according to any of the previous claims, wherein the first adaptor and the second adaptor are rectangular.

14. The closed system transfer device according to claim 11, wherein the needle is fixed in an interior of the female Luer connector.

15. The closed system transfer device according to claims 2 or 3, wherein the releasable lock comprises a first locking element on the carrier and a second locking element on the first adaptor.

16. The closed system transfer device according to claim 15, wherein the releasable lock is released by pressing at least one side of the housing radially inwardly.

17. The closed system transfer device according to claim 16, wherein the at least one side of the housing comprises a push button.

18. The closed system transfer device according to claim 1, wherein the at least one locking window comprises a pair of first locking windows that extend through the housing, the first locking windows configured to lockingly engage a pair of lugs on the carrier to retain the carrier in the first position,

wherein the at least one locking window further comprises a pair of second locking windows that extend through the housing, the second locking windows configured to lockingly engage the pair of lugs on the carrier to retain the carrier in the second position,

wherein the pair of lugs are visible through the first locking windows and the second locking windows from outside the closed system transfer device, thereby providing a visible indicator of a position of the carrier and an operating state of the closed system transfer device.