Claims

1. A septum holder comprising at least two parts, wherein the at least two parts comprise a body part and a septum support that are moveable ~~in relation to~~towards and away from each other and a septum attached to the septum support, wherein the body part and septum support are configured to be locked to each other at the end of ~~a~~ the movement ~~that brings them to their closest positions to~~towards each other.

2. The septum holder of claim 1, wherein the septum holder is part of a connector section for a liquid transfer apparatus.

3. The septum holder of claim 1, wherein the body part and the septum support comprise components configured to releasably hold the septum support in an unblocked configuration and to allow it to be moved ~~relative to~~towards the body part and to be locked in a blocked configuration.

4. The septum holder according to claim 1, wherein the septum support comprises a septum seat and the ~~body part and~~ septum support comprising an opening~~s~~ to accommodate an insert comprising at least one bore that forms the seat of a needle valve.

5. The septum holder according to claim 1, wherein the septum support comprises at least one resilient elongated arm, terminating with a tooth shaped element that projects downward through the body part and the body part comprises ~~projecting elements comprising~~ at least one upper window through their interiors and at least one lower slot or window at their bottom section into which the tooth shaped elements at the bottom of at least one arm of the septum support can enter, wherein the at least one resilient elongated arm is configured to allow the tooth shaped element to click into the upper window to releasably hold the septum holder in the unblocked configuration and to allow the tooth shaped element to click into the lower slot or window to lock the septum holder in the blocked configuration.

~~6. The septum holder according to claim 4, wherein the septum is attached to the septum support.~~

~~7.~~6. The septum holder according to claim ~~6~~4, wherein the septum comprises ~~an upper~~a lower part comprising a hollow interior in the form of a cylindrical recess having an inner diameter larger than that of the outer diameter of the ~~disk shaped~~ septum seat ~~and a lower part of that extends downward beyond the lower edge of the septum support of the septum holder~~.

~~8.~~7. A connector section for a liquid transfer apparatus, the connector section comprising: an outer body having a proximal end adapted to be attached to syringe and an open distal end; at least one hollow needle fixedly attached to the proximal end of the outer body of the connector section, the needle having at least one port at its lower end adjacent to its pointed distal tip that allows fluid communication between the exterior and the hollow interior of the needle; and a septum holder located inside of the ~~cylindrical~~ outer body of the connector section, the septum holder comprising at least two parts, wherein the at least two parts of the septum holder comprise a body part and a septum support that are moveable ~~in relation to~~towards and away from each other and a septum attached to the septum support, wherein the body part and septum support are configured to be locked to each other at the end of ~~a~~ the movement ~~that brings them to their closest positions to~~towards each other.

~~9.~~8. The connector section of claim ~~8~~7, wherein the body part and the septum support comprise components configured to releasably hold the septum support in an unblocked configuration and to allow it to be moved ~~relative to~~towards the body part and to be locked in a blocked configuration.

~~10.~~9. The connector section according to claim ~~8~~7, wherein the septum support comprises a septum seat and the ~~body part and~~ septum support comprising an opening~~s~~ to accommodate an insert comprising at least one bore that forms the seat of a needle valve.

~~11.~~10. The connector section according to claim 8, wherein the septum ~~seat~~ support comprises at least one resilient elongated arm, terminating with a tooth shaped element that projects downward through the body part and the body part comprises ~~projecting elements comprising~~ at least one upper window through their interiors and at least one lower slot or window at their bottom section into which the tooth shaped elements at the bottom of at least one arm of the septum support can enter, wherein the at least one

resilient elongated arm is configured to allow the tooth shaped element to click into the upper window to releasably hold the septum holder in the unblocked configuration and to allow the tooth shaped element to click into the lower slot or window to lock the septum holder in the blocked configuration.

~~12. The connector section according to claim 10, wherein the septum is attached to the septum support.~~

~~13.~~11. The connector section according to claim ~~12~~9, wherein the septum comprises ~~an upper~~a lower part comprising a hollow interior in the form of a cylindrical recess having an inner diameter larger than that of the outer diameter of the ~~disk shaped~~ septum seat ~~and a lower part of that extends downward beyond the lower edge of the septum support of the septum holder~~.

~~14.~~12. A method for sterilizing a unit for closed transfer of liquids comprised of a syringe or any other airtight device for closed transfer of liquids connected to a connector section, the connector section comprising: an outer body having a proximal end adapted to be attached to syringe or airtight device for closed transfer of liquids and an open distal end; at least one hollow needle fixedly attached to the proximal end of the outer body of the connector section, the needle having at least one port at its lower end adjacent to its pointed distal tip that allows fluid communication between the exterior and the hollow interior of the needle; and a septum holder located inside of the ~~cylindrical~~ outer body of the connector section, the septum holder comprising at least two parts, wherein the at least two parts of the septum holder comprise a septum support comprising a septum seat and a body part that are moveable ~~in relation to~~towards and away from each other; the septum support ~~and the body part~~ comprising an openings~~s~~ to accommodate an insert comprising at least one bore into which the least one port at the lower end adjacent to the pointed distal tip of the at least one hollow needle fits to forms a needle valve; wherein the body part and the septum support comprise components configured to releasably hold the septum holder in an unblocked configuration in which the at least one port is outside of the bore in the insert allowing fluid to flow through the hollow needle and to allow the septum support and the body part to be moved ~~to their closest positions relative to~~towards each other and to be locked in a blocked configuration in which the at least one port is inside of the bore in the insert blocking the flow of fluid through the hollow needle;

the method comprising:

a) arranging the septum holder in its unblocked configuration;

b) sealing the unit in a pack suitable for gas sterilization;

c) placing the pack in a closed container or room;

d) introducing sterilizing gas into the closed container or room;

e) leaving the pack exposed to the sterilizing gas for a period long enough for the gas to enter the pack and enter the inside of the syringe and connector section through the ports adjacent to the pointed distal tip of the needles, thereby sterilizing the syringe and connector section;

f) evacuating the sterilizing gas out of the container or room to draw the sterilizing gas out of the packs and the inside of the syringe and connector section;

g) introducing air to replace the sterilizing gas into the container or room and the packs and the inside of the syringe and connector section wherein the air inside the pack is sterile; and

h) repeating if necessary steps d through g until reaching a satisfactory level of sterility;

wherein, connecting the unit to a second member of a closed system for transfer of liquids by inserting a proximal end of the second member into the open distal end of the outer body of the connector section causes the septum holder to move within the connector section moving the septum support and the body part ~~to their closest positions relative to~~towards each other, thereby locking the septum holder in its blocked configuration.