CLAIM(S):

1. A tank comprising a housing with a door locking mechanism comprising:

(a) the tank comprising the housing having an interior cavity for receiving an expandable bioprocessing container having flexible walls; a bottom wall; a side wall, wherein the side wall has an opening; an outwardly pivoting tank door; and a hinge mounted to the side wall and the outwardly pivoting tank door, wherein the outwardly pivoting tank door is arranged to cover at least a portion of the opening;

the tank comprising the housing including a door locking mechanism comprising:

(i) a rotatable shaft mounted to the outwardly pivoting tank door, the rotatable shaft having a first end and a second end, the second end comprising a projecting arm, wherein the rotatable shaft is rotatable to a locking position when the expandable bioprocessing container is not expanded and the outwardly pivoting tank door is closed; and,

(ii) an arm receiver, comprising a base mounted to the at least one side wall of the tank at a distance from the outwardly pivoting tank door and the rotatable shaft, the arm receiver further comprising a receiver top extending horizontally from the base, the receiver top comprising a receiver top wall, first and second opposing receiver top side walls, a receiver top rear wall, and a receiver top front wall having a bottom end, the first and second opposing receiver top side walls each extending toward the base a distance past the bottom end of the receiver top front wall; the bottom end of the receiver top front wall and first and second opposing receiver top side walls defining an arm receiver opening for receiving the projecting arm when the rotatable shaft is rotated to the locking position to align the projecting arm with the arm receiver opening, and the projecting arm engages with the arm receiving opening as the outwardly pivoting tank door pivots outwardly upon being contacted by the expanded bioprocessing container.

2. A tank comprising a housing with a door locking mechanism comprising:

(a) the tank comprising the housing comprising a bottom wall, first and second opposing side walls, a rear wall, an outwardly pivoting tank door, a front wall having an opening, and a hinge mounted to the front wall and the outwardly pivoting tank door, wherein the outwardly pivoting tank door is arranged to cover at least a portion of the opening, the tank having an interior cavity for receiving an expandable bioprocessing container having flexible walls;

the tank comprising the housing including a door locking mechanism comprising:

(i) a rotatable shaft mounted to the outwardly pivoting tank door, the rotatable shaft having a first end and a second end, the second end comprising a projecting arm, wherein the rotatable shaft is rotatable to a locking position when the expandable bioprocessing container is not expanded and the outwardly pivoting tank door is closed; and,

(ii) an arm receiver, comprising a base mounted to the front wall of the tank at a distance from the outwardly pivoting tank door and the rotatable shaft, the arm receiver further comprising a receiver top extending horizontally from the base, the receiver top comprising a receiver top wall, first and second opposing receiver top side walls, a receiver top rear wall, and a receiver top front wall having a bottom end, the first and second opposing receiver top side walls each extending toward the base a distance past the bottom end of the receiver top front wall; the bottom end of the receiver top front wall and first and second opposing receiver top side walls defining an arm receiver opening for receiving the projecting arm when the rotatable shaft is rotated to the locking position to align the projecting arm with the arm receiver opening, and the projecting arm engages with the arm receiving opening as the outwardly pivoting tank door pivots outwardly upon being contacted by the expanded bioprocessing container.

3. The tank comprising the housing with the door locking mechanism of claim 1 or 2, wherein the first end of the rotatable shaft comprises a handle.

4. The tank comprising the housing with the door locking mechanism of any one of claims 1-3, wherein the bottom end of the receiver top front wall provides a stop for the projecting arm.

5. A method of using a tank comprising a housing with the door locking mechanism, the method comprising placing an expandable bioprocessing container with flexible walls into the interior cavity of the tank comprising the housing of any one of claims 1-4;

rotating the rotatable shaft until the projecting arm aligns with the arm receiver opening; and,

inflating the expandable bioprocessing container with air or gas and/or filling the expandable bioprocessing container with fluid until the expandable bioprocessing container expands and a flexible wall of the expanded bioprocessing container contacts the pivoting tank door and the pivoting tank door pivots outwardly.

6. The method of claim 5, wherein the pivoting door pivots outwardly until the projecting arm contact the bottom end of receiver top front wall.