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Text of the abstract

A tank with a door locking mechanism for use in bioprocessing, and methods of using the door locking mechanism, is provided. The door locking mechanism comprises a rotatable shaft rotatable between an unlocked position and a locked position mounted to an outwardly pivoting tank door, the rotatable shaft comprising a projecting arm; and an arm receiver, the arm receiver further comprising a receiver top; 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 align the projecting arm with the arm receiver opening, and the outwardly pivoting tank door pivots outwardly upon being contacted by an expanded bioprocessing container.