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(54) Title: LOCK MECHANISM USING ONE-WAY VALVE TO LOCK PISTON

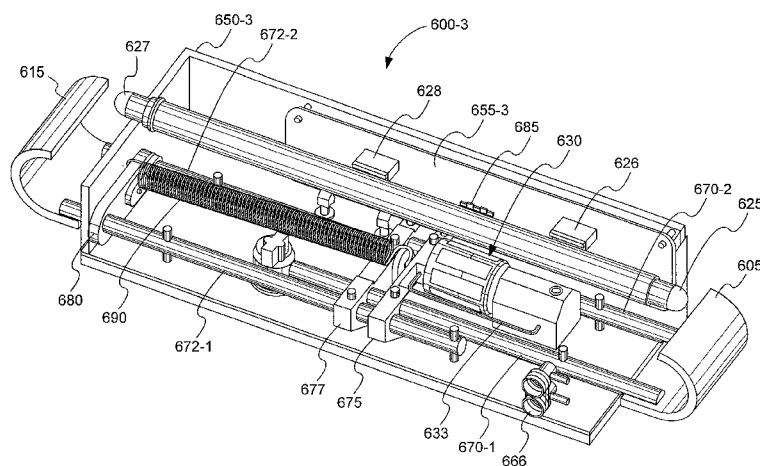


Fig. 6D

(57) Abstract: A lock mechanism for locking at least one door of a container in a closed position includes a housing, at least one lock member at least partially enclosed within the housing, the at least one lock member comprising a first lock member configured to engage a first portion of a container to lock at least one container door in a closed position, and a latching mechanism coupled to the at least one lock member. The latching mechanism includes a fluid chamber configured to hold a fluid, a piston slidably housed within the fluid chamber, and a valve coupled to the fluid chamber and configured to be in one of two states, the two states including an open state where fluid can flow through the valve in two directions to allow the piston to be moved in two directions, and a closed state where fluid is inhibited from flowing through the valve in at least one direction to prevent the piston from moving in at least one direction. The lock mechanism further includes a lock circuit at least partially enclosed within the housing, the lock circuit including memory, and a lock controller coupled to the memory and the latching mechanism and configured to receive commands related to the operation of the lock mechanism, wherein the lock controller is configured to cause the latching mechanism to be in one of the two states in response to the received commands.



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