Claims

1. The glove box includes an operation part including a glove for performing an internal operation, and forms an operation space isolated from the outside.
An intake port for taking in gas into the glove box ;
An exhaust port connected to an exhaust pipe for exhausting gas in the glove box ;
A flow rate adjusting mechanism for adjusting an exhaust flow rate of the gas discharged from the exhaust port to the exhaust pipe to an exhaust flow rate capable of generating a differential pressure preset between the operating space and the outside of the glove box by a differential pressure forming part provided in the intake port ;
A partition member which is partitioned into the operation space and a buffer space in which the exhaust port is formed and which has a communication port ;
A buffer side gas supply unit provided with an air intake port and supplying a buffer gas to the buffer space ;
The buffer side gas supply unit is configured such that a broken opening is formed when the operation unit is dropped from a glove box constituting the operation space. An isolator system, comprising : a supply stop mechanism for stopping supply of a buffer gas so that gas passing through the broken opening flows at an air speed equal to or higher than a preset minimum wind speed.

2. The isolator system according to claim 1, wherein, in the case where the broken opening is formed, the supply stop mechanism is provided with the differential pressure measured by the differential pressure measuring unit provided for measuring the differential pressure between outside of the glove box and the operation space reaches a negative pressure of a predetermined magnitude, the supply of the buffer gas is stopped.

3. The glove box includes an operation part including a glove for performing an internal operation, and forms an operation space isolated from the outside.
An intake port for taking in gas into the glove box ;
An exhaust port connected to an exhaust pipe for exhausting gas in the glove box ;
A flow rate adjusting mechanism for adjusting an exhaust flow rate of the gas discharged from the exhaust port to the exhaust pipe to an exhaust flow rate capable of generating a differential pressure preset between the operating space and the outside of the glove box by a differential pressure forming part provided in the intake port ;
A partition member which is partitioned into the operation space and a buffer space in which the exhaust port is formed and which has a communication port ;
A buffer side gas supply part provided with an intake port and supplying buffer gas to the buffer space ;
An operation space side gas supply part for supplying an operation space gas to the operation space ;
A filter provided in the communication port is provided.
The buffer gas is an atmosphere, and the operation space gas is an inert gas.

The flow rate of the gas for an operation space supplied from the operation space side gas supply unit is set as follows : The isolator system is characterized in that a pressure loss generated when the buffer gas passes through the differential pressure forming part of the buffer gas supply part is set to be higher than a pressure loss generated when the operation space gas passes through the filter.

4. The glove box includes an operation part including a glove for performing an internal operation, and forms an operation space isolated from the outside.
An intake port for taking in gas into the glove box ;
An exhaust port connected to an exhaust pipe for exhausting gas in the glove box ;
A flow rate adjusting mechanism for adjusting an exhaust flow rate of the gas discharged from the exhaust port to the exhaust pipe to an exhaust flow rate capable of generating a differential pressure preset between the operating space and the outside of the glove box by a differential pressure forming part provided in the intake port ;
A traveling path extending along the arrangement direction of the reaction vessels and arranged above the reaction vessels in an operation chamber in which a plurality of reaction vessels connectable to the glove box are arranged, respectively ;
A traveling body provided movably along the traveling path in a state supported by the traveling path ;
A suspension supporting part for suspending and supporting the glove box from the traveling body is provided.
The exhaust pipe is connected to the exhaust port, and is provided at a plurality of locations corresponding to the plurality of reaction vessels, and is provided at a plurality of locations corresponding to the plurality of reaction vessels, in the indoor side exhaust pipe portion which moves along the traveling path along with the movement of the glove box. The isolator system is characterized in that a connection port part which is detachably constituted by a terminal part of the indoor exhaust pipe part is provided on a ceiling part of the operation room and an outdoor exhaust pipe part which extends from the connection port part to an upper surface side of the ceiling part is provided.