DESCRIPTION

TITLE: INSIDE AIR CONTROL SYSTEM, REFRIGERATION APPARATUS, AND TRANSPORT CONTAINER

TECHNICAL FIELD

[0001]

The present disclosure relates to an inside air control system, a refrigeration apparatus, and a transport container.

BACKGROUND ART

[0002]

Patent Document 1 discloses an inside air control system that adjusts the composition of inside air in a transport container. To maintain freshness of, e.g., fruits and vegetables stored in the transport container, this inside air control system adjusts the oxygen concentration and carbon dioxide concentration of inside air.

[0003]

The inside air control system of Patent Document 1 is a so-called pressure swing adsorption (PSA) type gas separation device. This inside air control system includes an adsorption vessel filled with an adsorbent. The inside air control system performs an action of supplying outside air (atmospheric air) to the adsorption vessel to adsorb nitrogen in the outside air by the adsorbent and an action of decompressing the adsorption vessel using a decompression-side pump to desorb nitrogen from the adsorbent. Gas sucked from the adsorption vessel by the decompression-side pump is nitrogen-enriched gas having a higher nitrogen concentration than that of the outside air. The inside air control system supplies the