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(54) VENTILATION AND AIR FLOW CONTROL WITH HEAT INSULATED COMPARTMENT

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(57)ABSTRACT

Disclosed is an electrical cabinet with associated air flow direction and heat separation control system. The cabinet has a front, rear, a first side and a second side. The front side has openings to accept flow of cool air into the cabinet and the rear side has openings for exit of warm air from the rear side of the cabinet. The front, rear, first side and second side define an interior space are configured to house heat generating electrical equipment. A frame is adjacent the rear side of the cabinet. The frame has a first frame side and a second frame side. Louvers are located adjacent the rear of the cabinet. The louvers extend between the first frame side and the second frame side. Each louver has a face positioned at an angle to direct the warm air exiting the cabinet other than perpendicular to the rear of the cabinet. A first compartment for storing heat generating equipment is positioned above or below a thermally separated second compartment for storing heat sensitive equipment.

