

## **REFRIGERATION SYSTEM WITH LEAK DETECTION**

### **ABSTRACT OF THE DISCLOSURE**

5 A transportation refrigeration system includes a compartment to be conditioned. A refrigeration circuit is associated with an enclosure including a compressor. A condenser and an expansion valve are upstream of a first evaporator and a second evaporator. The first evaporator is in parallel with the second evaporator. A first enclosure surrounds the first evaporator. The first enclosure includes a first refrigerant detection sensor in communication with a controller. A  
10 second enclosure surrounds the second evaporator. The second enclosure includes a second refrigeration detection sensor in communication with the controller.

Fig.1