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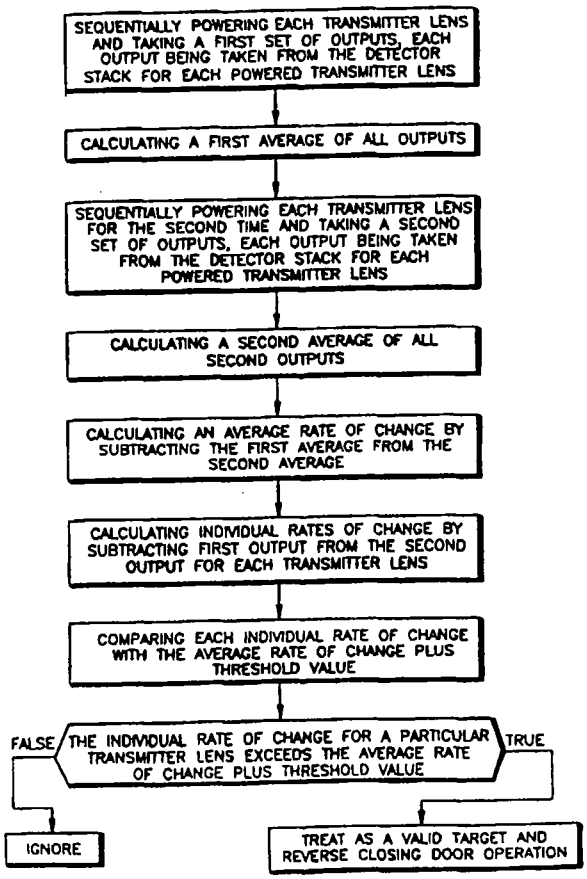




(54) Title: A SAFETY SYSTEM FOR DETECTING SMALL OBJECTS APPROACHING CLOSING DOORS

(57) Abstract

A safety system for detecting small objects that approach closing doors comprising a transmitter stack, a detector stack, and a controller including instructions to detect small objects as the doors are closing. A transmitter or a group of transmitters from the transmitter stack are powered sequentially resulting in an output from the detector stack. The controller compares each output from the detector stack with an average of all the outputs plus a threshold value. The outputs that exceed the average plus threshold value trigger the safety system to reverse closing operation of the doors.



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