

SYSTEMS AND METHODS FOR HIGH EFFICIENCY VEHICLE CONTENTS INSPECTION

ABSTRACT OF THE DISCLOSURE

A system for high efficiency vehicle contents inspection for inspecting a vehicle, includes, a vehicle entry gate for facilitating entry of the vehicle; a control unit; a shielding wall radiation zone comprising a radiation shielding wall; an exit vehicle movement monitoring device; a radiation stop sensor; and, a vehicle and container optical recognition system. In use, the system is configured to provide fast scanning comprising installation of high energy X-ray or gamma ray inspection. The system further includes an incoming traffic monitoring device, a vehicle movement monitoring device, a radiation control zone, a radiation source, a detector array, a vehicle exit zone, a database server, a traffic light, a radiation monitoring device, a barrier, one or more radiation detector arrays, a radiation main beam, a vehicle passed radiation beam, and a long range remote sensing device.

Figure 2