Claims

1. A foreign matter detection system comprising

image capturing devices for acquiring an image in a target area,

transmission parts arranged within angular fields of predetermined image capturing devices, the transmission parts through which an outside can be visually observed from inside of the target area,

an entry/exit port for opening/closing the target area, the entry/exit port being arranged on a position different from the transmission parts,

front- and depth-side polarizing filters relative to the predetermined image capturing devices, the polarizing filters being provided on an light path from the transmission parts to the predetermined image capturing devices so as to have polarizing directions crossing each other, and

a foreign matter detection part for detecting a foreign matter in the target area on the basis of the image acquired by the image capturing device,

wherein the image capturing device which put the entry/exit port within the field angles thereof is arranged so that the entry/exit port is reflected in a farthest edge of the acquired image.

2. The foreign matter detection system as claimed in claim 1, wherein the depth-side polarizing filter is provided on the transmission part positioned on a border between the target area and an outer space.

3. The foreign matter detection system as claimed in claim 1, wherein the foreign matter in the image acquired by the image capturing device is detected by a program using deep learning.

4. The foreign matter detection system as claimed in claim 1, wherein the target area is an entry/exit space in a mechanical parking facility.

5. The foreign matter detection system as claimed in claim 2, wherein the target area is an entry/exit space in a mechanical parking facility.

6. The foreign matter detection system as claimed in claim 3, wherein the target area is an entry/exit space in a mechanical parking facility.