Claims

~~[Claim 1]~~ 1. A foreign object detection system, comprising, around a shielding object located in a target area:

a first image pickup device arranged on one of a left side or a right side behind the shielding object as viewed from a transmissive portion through which an outside of the target area is visible from an inside of the target area, the first image pickup device being configured to include a space on the other of the left side or the right side in an angle of view thereof;

a second image pickup device arranged on the left side in front of the shielding object as viewed from the transmissive portion, the second image pickup device being configured to include a space on a right back side in an angle of view thereof; and

a third image pickup device arranged on the right side in front of the shielding object as viewed from the transmissive portion, the third image pickup device being configured to include a space on a left back side in an angle of view thereof~~.~~,

wherein the first image pickup device is arranged so that a straight line along an edge on the front side of the angle of view of the first image pickup device as viewed from the transmissive portion in plan view overlaps with a line segment connecting the first image pickup device and an end on the other of the left side or the right side of the transmissive portion, or passes the other of the left side or the right side of the line segment.

~~[Claim 2] The foreign object detection system according to claim~~

~~1, wherein the first image pickup device is arranged so that a straight line along an edge on the front side of the angle of view of the first image pickup device as viewed from the transmissive portion in plan view overlaps with a line segment connecting the first image pickup device and an end on the other of the left side or the right side of the transmissive portion, or passes the other of the left side or the right side of the line segment.~~

~~[Claim 3]~~ 2. The foreign object detection system according to claim 1~~ or 2~~, wherein the foreign object detection system is configured to detect a foreign object in images taken by the image pickup devices by a program using deep learning.

~~[Claim 4]~~ 3. The foreign object detection system according to any one of claims 1 to ~~3~~2, wherein the shielding object is a vehicle.

~~[Claim 5]~~ 4. The foreign object detection system according to any one of claims 1 to ~~4~~3, wherein the target area is a loading/unloading space of a mechanical parking lot.