

TRAVELLING VEHICLE AND TRAVELLING VEHICLE SYSTEM

ABSTRACT

A travelling vehicle includes: a body provided with a small
marker and a large marker; an imager; a pattern recognition unit; and a
state determination unit configured to determine that the travelling
vehicle that is another travelling vehicle is present in at least one of the
front and the rear of a subject travelling vehicle when the small marker
or the large marker is recognized. The large marker is configured to be
of a size that does not entirely fit within an image capturing range of the
imager equipped in the other travelling vehicle located less than a
predetermined distance from the subject travelling vehicle. The small
marker is configured to be of a size that entirely fits within the image
capturing range of the imager equipped in the other travelling vehicle
when a distance from the subject travelling vehicle is less than the
predetermined distance from the subject travelling vehicle, the small
marker being arranged inside a region where the large marker is
configured. The large marker has a display pattern including a first
region, a second region with a lower reflectance than a reflectance of the
first region, and a region where the small marker is arranged. The
small marker has a display pattern including a third region with a lower
reflectance than the reflectance of the first region and a fourth region
with a lower reflectance than the reflectance of the third region and a
lower reflectance than the reflectance of the second region.

Fig. 3