

**DEVICE FOR LOCATING A MOVING BODY  
HAVING A RESPONSE UNIT****ABSTRACT**

A device for locating a moving body includes:

an interrogation unit (10) for communicating with a response unit (50) mounted on a vehicle (51) present in a lane of a communication zone "a"; receiving antennas (21, 22) having receiving areas "21b, 22b" divided in the width direction of the lane; and a processor (40) for determining the position of the vehicle in the communication zone based on a reception result from the receiving antennas. The device may also include a detecting device such as an imaging device (30) having an imaging area "c" of a size equal to the lane. This makes it possible to recognize an unauthorized vehicle (52) not having a response unit and thus passing through the imaging area "c" without a radio signal to be received by the receiving antennas (21, 22).

Fig. 1