

CLAIMS

What is claimed is:

1. A system, comprising:

a hardware processor; and

a non-transitory machine-readable storage medium encoded with instructions executable by the hardware processor to perform a method comprising:

receiving, into a vehicle radio located on a vehicle traveling along a roadway, signals transmitted by wayside radios located along the roadway;

and

determining a location of the vehicle along the roadway based on the received signals.
2. The system of claim 1, the method further comprising:

transmitting the location from the vehicle to a first one of the wayside radios;

and

relaying the location along the roadway from the first one of the wayside radios along one or more second ones of the wayside radios.
3. The system of claim 2, the method further comprising:

transmitting the location from one of the one or more second ones of the wayside radios to a control center.
4. The system of claim 1, the method further comprising:

determining a location of a roadway worker along the roadway; and

notifying the roadway worker working on the roadway when the vehicle is approaching the worker.

5. The system of claim 1, the method further comprising:

determining a location of a roadway worker along the roadway; and

controlling the vehicle when the vehicle is approaching the roadway worker.

6. The system of claim 1, wherein the vehicle comprises a plurality of cars each comprising one of the vehicle radios, the method further comprising:

establishing a communication network among the vehicle radios.

7. The system of claim 1, wherein the vehicle comprises a plurality of cars each comprising one of the vehicle radios, the method further comprising:

counting a number of vehicle radios passing one of the wayside radios; and

determining a number of the cars in the vehicle based on the counting.

8. A non-transitory machine-readable storage medium encoded with instructions executable by a hardware processor of a computing component, the machine-readable storage medium comprising instructions to cause the hardware processor to perform a method comprising:

receiving, into a vehicle radio located on a vehicle traveling along a roadway, signals transmitted by wayside radios located along the roadway; and

determining a location of the vehicle along the roadway based on the received signals.

9. The non-transitory machine-readable storage medium of claim 8, the method further comprising:

transmitting the location from the vehicle to a first one of the wayside radios;
and

relaying the location along the roadway from the first one of the wayside
radios along one or more second ones of the wayside radios.

10. The non-transitory machine-readable storage medium of claim 9, the
method further comprising:

transmitting the location from one of the one or more second ones of the
wayside radios to a control center.

11. The non-transitory machine-readable storage medium of claim 8, the
method further comprising:

determining a location of a roadway worker along the roadway; and

notifying the roadway worker working on the roadway when the vehicle is
approaching the worker.

12. The non-transitory machine-readable storage medium of claim 8, the
method further comprising:

determining a location of a roadway worker along the roadway; and

controlling the vehicle when the vehicle is approaching the roadway worker.

13. The non-transitory machine-readable storage medium of claim 8,
wherein the vehicle comprises a plurality of cars each comprising one of the vehicle
radios, the method further comprising:

establishing a communication network among the vehicle radios.

14. The non-transitory machine-readable storage medium of claim 8, wherein the vehicle comprises a plurality of cars each comprising one of the vehicle radios, the method further comprising:

counting a number of vehicle radios passing one of the wayside radios; and

determining a number of the cars in the vehicle based on the counting.

15. A method comprising:

receiving, into a vehicle radio located on a vehicle traveling along a roadway, signals transmitted by wayside radios located along the roadway; and

determining a location of the vehicle along the roadway based on the received signals.

16. The method of claim 15, further comprising:

transmitting the location from the vehicle to a first one of the wayside radios; and

relaying the location along the roadway from the first one of the wayside radios along one or more second ones of the wayside radios.

17. The method of claim 16, further comprising:

transmitting the location from one of the one or more second ones of the wayside radios to a control center.

18. The method of claim 15, further comprising:

determining a location of a roadway worker along the roadway; and

notifying the roadway worker working on the roadway when the vehicle is approaching the worker.

19. The method of claim 15, further comprising:

determining a location of a roadway worker along the roadway; and

controlling the vehicle when the vehicle is approaching the roadway worker.

20. The method of claim 15, wherein the vehicle comprises a plurality of cars each comprising one of the vehicle radios, the method further comprising:

establishing a communication network among the vehicle radios.