

Toyota Motor Corporation, Petitioner
v.
American Vehicular Sciences (“AVS”), Patent Owner

Before Jameson Lee, Michael W. Kim, and Lynne E.
Pettigrew, *Administrative Patent Judges*

No. IPR2013-00419
Patent No. 6,772,057

Thomas J. Wimbiscus, Lead Counsel
Scott P. McBride, Backup Counsel
Christopher M. Scharff, Backup Counsel

Grounds for Institution

Trial Instituted on Claims:

1-4, 7-10, 30-34, 37-39, 40, 41, 43, 46, 48, 49, 56, 59-61, 62, 64

- Claims 1-4, 7-10, 40, 41, 43, 46, 48, 49, 56, 59-61, 64 for anticipation by **Lemelson**
- Claims 30-34, 37-39, 62 for obviousness by **Lemelson** and **Borcherts**
- Claims 4, 43, and 59 for obviousness by **Lemelson** and **Asayama**
- Claim 34 for obviousness by **Lemelson**, **Borcherts**, and **Asayama**
- Claims 30-32, 37-39, 62 for obviousness by **Yamamura** and **Borcherts**

Grounds to Which AVS Responds

- Claims 1-4, 7-10, 41, 56, 59-61, 64 for anticipation by **Lemelson**
 - Independent claims 1 and 56 and claim 41 require a “**pattern recognition algorithm generated from data of possible exterior objects and patterns received waves from the possible exterior objects**”
- Claims 30, 32-34, 37-39, 62 for obviousness by (a) **Lemelson** and **Borcherts** or (b) **Yamamura** and **Borcherts**
 - Independent claim 30 and claim 62 require “**at least one receiver arranged rear view mirror of the vehicle**”

Independent Claim 1

1. A monitoring arrangement for monitoring an environment exterior of a vehicle, comprising:

at least one receiver arranged to receive waves from the environment exterior of the vehicle which contain information on any objects in the environment and generate a signal characteristic of the received waves; and

a processor coupled to said at least one receiver and comprising trained pattern recognition means for processing the signal to provide a classification, identification or location of the exterior object, said trained pattern recognition means being structured and arranged to apply a trained pattern recognition algorithm generated from data of possible exterior objects and patterns of received waves from the possible exterior objects to provide the classification, identification or location of the exterior object;

whereby a system in the vehicle is coupled to said processor such that the operation of the system is affected in response to the classification, identification or location of the exterior object.

Claim 41

41. The arrangement of claim 40, wherein said processor comprises trained pattern recognition means for processing the signal to provide the classification, identification or location of the exterior object, said trained pattern recognition means being structured and arranged to apply a trained pattern recognition algorithm generated from data of possible exterior objects and patterns of received waves from the possible exterior objects.

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