Toyota Motor Corporation, Petitioner
v.
American Vehicular Sciences ("AVS"), Patent Ow

Before Jameson Lee, Trevor M. Jefferson, and Barbara A.
Parvis, *Administrative Patent Judges*

No. IPR2013-00424
Patent No. 5,845,000

Thomas J. Wimbiscus, Lead Cou
Scott P. McBride, Backup Couns
Christopher M. Scharff, Backup C

Grounds for Institution

Trial Instituted on Claims:

    10, 11, 16, 17, 19, 20, 23

- Claims 10, 11, 16, 17, 19, 20, 23 for anticipation by **Lemelson**

- Claims 10, 11, 19, 23 for obviousness by **Lemelson** and **Asayama**

- Claims 16, 17, 20 for obviousness by **Yanagawa** and **Lemelson**

Grounds for Institution by Type

- All reviewed claims for anticipation by **Lemelson**

  - All reviewed claims require **"generating a pattern recognition algorithm"** **"pattern recognition algorithm generated" "from data of possible exter objects and patterns of received electromagnetic illumination from the possible exterior objects"**

- Claims 10, 11, 19, 23 for obviousness by **Lemelson** and **Asayama**

  - Claims require **"transmitting electromagnetic waves"**

- Claims 16, 17, 20 for obviousness by **Lemelson** and **Asayama**

  - Claims require **"output means . . . for dimming the headlights in said veh**

Independent Claim 10

10. In a motor vehicle having an interior and an exterior, a monitoring system for monitoring at least one object exterior to said vehicle comprising: a) transmitter means for transmitting electromagnetic waves to illuminate the at least one exterior object;

b) reception means for receiving reflected electromagnetic illumination from the at least one exterior object;

c) processor means coupled to said reception means for processing said received illumination and creating an electronic signal characteristic of said exterior object based thereon;

d) categorization means coupled to said processor means for categorizing said electronic signal to identify said exterior object, said categorization means comprising trained pattern recognition means for processing said electronic signal based on said received illumination from said exterior object to provide an identification of said exterior object based thereon, said pattern recognition means being structured and arranged to apply a pattern recognition algorithm generated from data of possible exterior objects and patterns of received electromagnetic illumination from the possible exterior objects; and

e) output means coupled to said categorization means for affecting another system in the vehicle in response to the identification of said exterior object

Independent Claim 16

16. In a motor vehicle having an interior and an exterior, an automatic headlight dimming s comprising:

a) reception means for receiving electromagnetic radiation from the exterior of the ve

b) processor means coupled to said reception means for processing the received rad and creating an electronic signal characteristic of the received radiation;

c) categorization means coupled to said processor means for categorizing said elect signal to identify a source of the radiation, said categorization means comprising trai pattern recognition means for processing said electronic signal based on said receive radiation to provide an identification of the source of the radiation based thereon, sai pattern recognition means being structured and arranged to apply <mark>a pattern recogniti algorithm generated from data of possible sources of radiation including lights of veh and patterns of received radiation from the possible sources;</mark> and

d) output means coupled to said categorization means for dimming the headlights in vehicle in response to the identification of the source of the radiation.

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