IPR2013-00419, -00424

Toyota Motor Corp., Petitioner

v.

American Vehicular Sciences LLC,
Patent Owner

August 18, 2014

Grounds of Review

IPR2013-00419 ('057 Patent)*

1. Claims 1-4, 7-10, 40, 41, 46, 48, 49, 56, 59-61, and 64 under 35 U.S.C. 102 by Lemelson
2. Claims 30-34, 37-39, and 62 under 35 U.S.C. 103 over Lemelson and Borcherts
3. Claims 4, 43, and 59 under 35 U.S.C. 103 over Lemelson and
4. Claim 34 under 35 U.S.C. 103 over Lemelson, Borcherts, an
5. Claims 30, 32, and 37-39 under 35 U.S.C. 103 over Yamamu and Borcherts

   *Claims 40, 43, 46, 48, and 49 have been conceded by Patent Owner

IPR2013-00424 ('000 Patent)

1. Claims 10, 11, 19, and 23 under 35 U.S.C. § 102 by Lemelso
2. Claims 10, 11, 19, and 23 under 35 U.S.C. § 103 over Lemel
3. Claims 16, 17, and 20 under 35 U.S.C. § 103 over Lemelson

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ronment of the vehicle, in an A-pillar or B-pillar of the vehicle to obtain images of an interior environment of the vehicle, or in a roof, ceiling, B-pillar or C-pillar of the vehicle to obtain images of an interior environment of the vehicle behind a front seat of the vehicle. These mounting locations are exemplary only and not limiting.

The determined characteristic can be used to enable optimal control of a reactive component, system or sub-

described above to direct light into external and/or internal environments, relative to the vehicle.

Many changes, modifications, variations and other uses and applications of the subject invention will, however, become apparent to those skilled in the art after considering this specification and the accompanying drawings which disclose the preferred embodiments thereof. All such changes, modifications, variations and other uses and applications which do not depart from the spirit and scope of the

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.

10. In a motor vehicle having
a monitoring system for monit
exterior to said vehicle comprisi

a) transmitter means for tra
waves to illuminate the at l

b) reception means for recei
netic illumination from the

c) processor means coupled t
processing said received ill
electronic signal characteris
based thereon;

d) categorization means coupl
for categorizing said electro
exterior object, said catego
trained pattern recognition
electronic signal based on
from said exterior object to
said exterior object based t
nition means being structur
==pattern recognition algorith
possible exterior objects and
tromagnetic illumination f
objects;== and

e) output means coupled to sai
affecting another system in
the identification of said ex

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arranged to apply a trained **pattern re**
rithm generated from data of possible
and patterns of received waves from the
rior objects to provide the classification

U.S. Patent No. 6,553,130 to Lemelson
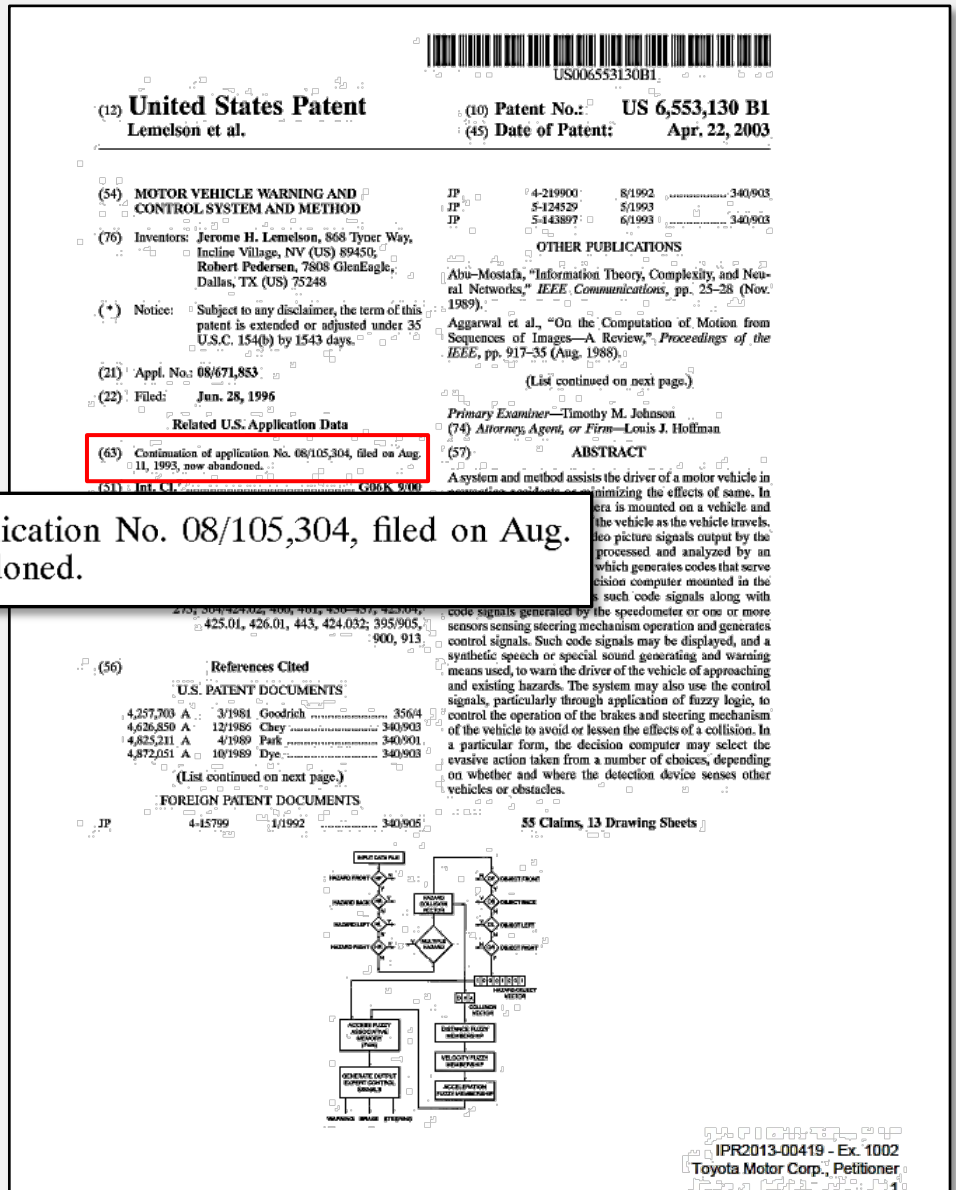
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