

PTO Utility 2000)

- C** 29 DIRECTION TURNING DEVICE FOR A HEADLIGHT OF AN AUTOMOBILE, US PAT 5550717 (U.S. PTO Utility 1996)
- C** 30 FOCUSING MIRROR CONTROL SYSTEM AND METHOD FOR ADJUSTING SAME, US PAT 6118113 (U.S. PTO Utility 2000)
- C** 31 HEAD LAMP DEVICE FOR VEHICLE, US PAT 6010237 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 2000)
- C** 32 HEAD LAMP DEVICE FOR VEHICLE, US PAT 5909949 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1999)
- C** 33 HEADLAMP, US PAT 5158352 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1992)
- C** 34 HEADLAMP DRIVE AND CONTROL APPARATUS, US PAT 4583152 Assignee: Aisin Seiki Kabushiki Kaisha, (U.S. PTO Utility 1986)
- C** 35 HEADLAMP FOR MOTOR VEHICLES WITH PROGRAMMABLE LIGHT DISTRIBUTION, US PAT 4868721 (U.S. PTO Utility 1989)
- C** 36 HEADLAMP POSITIONING DEVICE, US PAT 5181429 Assignee: Saia AG, (U.S. PTO Utility 1993)
- C** 37 HEADLIGHT AIMING AND LIGHT PATTERN TESTING APPARATUS AND METHOD, US PAT 4948249 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1990)
- C** 38 HEADLIGHT AIMING APPARATUS, US PAT 5751832 Assignee: Progressive Tool & Industries Co., (U.S. PTO Utility 1998)
- C** 39 HEADLIGHT AIMING APPARATUS AND DISPLAY, US PAT 5164785 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1992)
- C** 40 HEADLIGHT AIMING METHOD USING PATTERN FRAMING, US PAT 5373357 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C** 41 HEADLIGHT ARRANGEMENT FOR MOTOR VEHICLE, US PAT 6227691 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2001)
- C** 42 HEADLIGHT ARRANGEMENT FOR VEHICLES, US PAT 4768135 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1988)
- C** 43 HEADLIGHT BEAM CONTROL SYSTEM FOR MOTOR VEHICLES, US PAT 4225902 (U.S. PTO Utility 1980)
- C** 44 HEADLIGHT CONTROL APPARATUS FOR MOTORCYCLES, US PAT 4870545 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1989)
- C** 45 HEADLIGHT FOR VEHICLE, US PAT 4833573 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C** 46 HEADLIGHT MOVING APPARATUS FOR A MOTOR VEHICLE, US PAT 5099400 (U.S. PTO Utility 1992)
- C** 47 HEIGHT SENSOR AND VEHICULAR HEADLIGHT BEAM AXIS LEVELING APPARATUS, US PAT 6234654 Assignee: Denso Corporation, (U.S. PTO Utility 2001)
- C** 48 INFINITELY ADJUSTABLE LEVEL LIGHT, US PAT 3953726 (U.S. PTO Utility 1976)

- C** 49 IRRADIATION DIRECTION CONTROL APPARATUS FOR VEHICULAR LAMP, US PAT 5907196Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1999)
- C** 50 LIGHT DESTRIIBUTION OF HEADLIGHT BEAM, US PAT 4907877 (U.S. PTO Utility 1990)
- C** 51 LIGHT MANAGEMENT SYSTEM FOR A VEHICLE, US PAT 5781105Assignee: Ford Motor Company, (U.S. PTO Utility 1998)
- C** 52 LIGHTING CONTROL FOR MOTOR VEHICLE LAMPS, US PAT 3634677Assignee: Robert Bosch Gmbh, (U.S. PTO Utility 1972)
- C** 53 LIGHTING DEVICE FOR A VEHICLE, US PAT 6049749Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2000)
- C** 54 LIGHTING DEVICE FOR VEHICLES, US PAT 6293686Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 55 LIGHTING SYSTEM FOR A MOTORCYCLE, US PAT 3939339 (U.S. PTO Utility 1976)
- C** 56 LOAD TRIM COMPENSATING VEHICLE HEADLIGHT DEFLECTION SYSTEM, US PAT 4162424Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1979)
- C** 57 MAGNETIC COUPLING MECHANISM FOR USE IN AN AUTOMOTIVE VEHICLE, US PAT 5977678Assignee: UT Automotive Dearborn, Inc., (U.S. PTO Utility 1999)
- C** 58 METHOD AND APPARATUS FOR ADJUSTING THE ORIENTATION OF VEHICLE HEADLIGHTS, US PAT 4204270Assignee: Societe pour l'Equipement de, (U.S. PTO Utility 1980)
- C** 59 METHOD AND APPARATUS FOR LOCATING A SPECIFIC LOCATION ON A VEHICLE HEADLAMP, US PAT 5331393Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C** 60 METHOD OF MEASURING AND ADJUSTING OPTICAL AXIS OF HEADLIGHT, US PAT 5392111Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1995)
- C** 61 MOTOR VEHICLE LIGHTING SYSTEM HAVING AT LEAST TWO BEND LIGHTING DRIVING LIGHTS, US PAT 6176590Assignee: Valeo Vision, (U.S. PTO Utility 2001)
- C** 62 MOTOR VEHICLE WITH HEADLAMP TILTING MECHANISM, US PAT 4066886Assignee: The Lucas Electrical Company Limited, (U.S. PTO Utility 1978)
- C** 63 MOTORCYCLE HEADLIGHT AIMING DEVICE, US PAT 5426571 (U.S. PTO Utility 1995)
- C** 64 MULTIPLE SENSOR INCLINATION MEASURING SYSTEM, US PAT 4549277Assignee: Brunson Instrument Company, (U.S. PTO Utility 1985)
- C** 65 POSITION CONTROL SYSTEM, US PAT 4310172Assignee: General Motors Corporation, (U.S. PTO Utility 1982)
- C** 66 ROAD SURFACE-SENSITIVE BEAM PATTERN LEVELING SYSTEM FOR A VEHICLE HEADLAMP, US PAT 4868720Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C** 67 SIDELIGHTING ARRANGEMENT AND METHOD, US PAT 5428512 (U.S. PTO Utility 1995)
- C** 68 STEPPER MOTOR SHAFT POSITION SENSOR, US PAT 4791343Assignee: Allied-Signal Inc., (U.S. PTO Utility 1988)
- C** 69 SUPPORT FRAME FOR HEADLIGHT AIMING APPARATUS, US PAT 5920386Assignee: Progressive Tool & Industries Co., (U.S. PTO Utility 1999)
- C** 70 SWITCHING CONTROL SYSTEM FOR AUTOMATICALLY TURNING HEADLIGHTS OFF

- AND ON AT INTERSECTIONS, US PAT 6097156 (U.S. PTO Utility 2000)
- C 71 SYSTEM FOR AUTOMATICALLY ADJUSTING OPTICAL AXIS DIRECTION OF VEHICLE HEADLIGHT, US PAT 6193398 Assignee: DENSO Corporation, (U.S. PTO Utility 2001)
 - C 72 SYSTEM FOR SELF-ALIGNING VEHICLE HEADLAMPS, US PAT 5633710 Assignee: EGS Inc., (U.S. PTO Utility 1997)
 - C 73 TILTING DEVICE OF VEHICLE HEADLIGHT, US PAT 4916587 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1990)
 - C 74 VARIABLE DISTRIBUTION TYPE AUTOMOTIVE HEADLAMP, US PAT 5060120 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1991)
 - C 75 VEHICLE CORNERING LAMP SYSTEM, US PAT 5526242 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1996)
 - C 76 VEHICLE CORNERING LAMP SYSTEM, US PAT 4908560 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1990)
 - C 77 VEHICLE HEADLIGHT AIMING APPARATUS, US PAT 5485265 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1996)
 - C 78 VEHICLE HEADLIGHT WITH ADJUSTING MEANS FOR DIFFERENT TRAFFIC CONDITIONS, US PAT 5938319 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1999)
 - C 79 VEHICULAR CORNERING LAMP SYSTEM, US PAT 5404278 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1995)
 - C 80 VEHICULAR HEADLAMP PRODUCING LOW BEAM HAVING CUT LINE CONTROLLED IN ACCORDANCE WITH CONDITION OF CURVED ROAD, US PAT 5707129 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1998)

US District Court Civil Docket

**U.S. District - Texas Eastern
(Tyler)**

6:10cv78

Balther Technologies, Llc v. American Honda Motor Co Inc et A

This case was retrieved from the court on Tuesday, May 17, 2011

Date Filed: 03/08/2010	Class Code: CLOSED
Assigned To: Judge Leonard Davis	Closed: Yes
Referred To:	Statute: 35:271
Nature of suit: Patent (830)	Jury Demand: Plaintiff
Cause: Patent Infringement	Demand Amount: \$0
Lead Docket: None	NOS Description: Patent
Other Docket: None	
Jurisdiction: Federal Question	

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Plaintiff

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American Honda Motor Co Inc
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Honda Motor Company, Ltd
Defendant

Bmw of North America, Llc
Defendant

Bmw AG
Defendant

Chrysler Group Llc
Defendant

Ferrari North America, Inc
Defendant

Ferrari Spa
Defendant

General Motors, Llc
Defendant

Hyundai Motor America
Defendant

Hyundai Motor Company
Defendant

Jaguar Land Rover North America, Llc

Defendant

Jaguar Cars Limited
Defendant

Maserati North America Inc
Defendant

Maserati Spa
Defendant

Mercedes-Benz USA, Llc
Defendant

Daimler North America Corporation
Defendant

Daimler AG
Defendant

Mazda Motor of North America, Inc
Defendant

Mazda Motor Corp
Defendant

Mitsubishi Motors North America, Inc
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Nissan North America, Inc
Defendant

Nissan Motor Co, Ltd
Defendant

Porsche Cars North America, Inc
Defendant

Dr Ing Hc.F Porsche AG
Defendant

Saab Cars North America, Inc
Defendant

Toyota Motor North America, Inc
Defendant

Toyota Motor Sales, USA, Inc
Defendant

Toyota Motor Corp
Defendant

Volkswagen Group of America, Inc
Defendant

Automobili Lamborghini Spa
Defendant

Audi AG
Defendant

Volkswagen AG
Defendant

Ford Motor Company
Defendant

Volvo Cars of North America, LLC
Defendant

Volvo Car Corp
Defendant

Date	#	Proceeding Text
03/08/2010	1	COMPLAINT for Patent Infringement against all defendants (Filing fee \$ 350 receipt number 0540000000002387982.), filed by Balther Technologies, LLC. (Attachments: # 1 Exhibit A, # 2 Civil Cover Sheet)(Albritton, Eric) (Entered: 03/08/2010)
03/08/2010	--	Judge Leonard Davis added. (mll,) (Entered: 03/08/2010)
03/08/2010	2	Notice of Filing of Patent/Trademark Form (AO 120). AO 120 mailed to the Director of the U.S. Patent and Trademark Office. (Albritton, Eric) (Entered: 03/08/2010)
03/09/2010	3	NOTICE of Attorney Appearance by Thomas John Ward, Jr on behalf of Balther Technologies, LLC (Ward, Thomas) (Entered: 03/09/2010)
03/09/2010	4	NOTICE of Attorney Appearance by Jack Wesley Hill on behalf of Balther Technologies, LLC (Hill, Jack) (Entered: 03/09/2010)
03/09/2010	5	NOTICE of Attorney Appearance by Adam A Biggs on behalf of Balther Technologies, LLC (Biggs, Adam) (Entered: 03/09/2010)
03/09/2010	6	NOTICE of Attorney Appearance by Debra Rochelle Coleman on behalf of Balther Technologies, LLC (Coleman, Debra) (Entered: 03/09/2010)
03/09/2010	7	NOTICE of Attorney Appearance by Matthew Clay Harris on behalf of Balther Technologies, LLC (Harris, Matthew) (Entered: 03/09/2010)
03/10/2010	8	NOTICE of Attorney Appearance by J Mike Amerson on behalf of Balther Technologies, LLC (Amerson, J) (Entered: 03/10/2010)
03/10/2010	9	NOTICE of Attorney Appearance by Matthew Richard Rodgers on behalf of Balther Technologies, LLC (Rodgers, Matthew) (Entered: 03/10/2010)
03/10/2010	10	NOTICE of Attorney Appearance by Michael Aaron Benefield on behalf of Balther Technologies, LLC (Benefield, Michael) (Entered: 03/10/2010)
03/10/2010	11	NOTICE of Attorney Appearance by David Wynne Morehan on behalf of Balther Technologies, LLC (Morehan, David) (Entered: 03/10/2010)
03/10/2010	12	NOTICE of Attorney Appearance by Danny Lloyd Williams on behalf of Balther Technologies, LLC (Williams, Danny) (Entered: 03/10/2010)
03/10/2010	13	NOTICE of Attorney Appearance by Jaison Chorikavumkal John on behalf of Balther Technologies, LLC (John, Jaison) (Entered: 03/10/2010)
03/10/2010	14	NOTICE of Attorney Appearance by Christopher Needham Cravey on behalf of Balther Technologies, LLC (Cravey, Christopher) (Entered: 03/10/2010)
04/26/2010	15	ORDER that plaintiff file a notice that the case is ready for scheduling conference when all of the defendants have either answered or filed a motion to transfer or dismiss. The notice shall be filed within five days of the last remaining defendant's answer or motion. Signed by Judge

Leonard Davis on 04/26/10. cc:attys 4-27-10(mll,) (Entered: 04/27/2010)

04/28/2010 16 E-GOV SEALED SUMMONS Issued as to American Honda Motor Co. Inc., BMW of North America, LLC, Chrysler Group LLC, Daimler North America Corporation, Ferrari North America, Inc., Ford Motor Company, General Motors, LLC, Hyundai Motor America, Jaguar Land Rover North America, LLC, Maserati North America Inc, Mazda Motor of North America, Inc., Mercedes-Benz USA, LLC, Mitsubishi Motors North America, Inc., Nissan North America, Inc., Porsche Cars North America, Inc., SAAB Cars North America, Inc., Toyota Motor North America, Inc., Toyota Motor Sales, U.S.A., Inc., Volkswagen Group of America, Inc., Volvo Cars of North America, LLC., and emailed to pltf for service. (mll,) (Entered: 04/28/2010)

05/17/2010 17 NOTICE of Voluntary Dismissal by Balther Technologies, LLC (Attachments: # 1 Text of Proposed Order)(Albritton, Eric) (Entered: 05/17/2010)

05/18/2010 18 ORDER DISMISSING CASE. This civil action is dismissed without prejudice. Pltf and defts shall bear their own costs, expenses and legal fees. Signed by Judge Leonard Davis on 05/18/10. cc:attys 5-18-10(mll,) (Entered: 05/18/2010)

05/18/2010 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc.. (Attachments: # 1 Text of Proposed Order)(Smith, Michael) (Entered: 05/18/2010)

05/19/2010 20 NOTICE by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc. re 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint (Notice of Withdrawal of Agreed MOTION for Extension of Time to File Answer) (Smith, Michael) (Entered: 05/19/2010)

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285312 (10) 7241034 July 10, 2007

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

7241034

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June 12, 2003

Automatic directional control system for vehicle headlights

REEXAM-LITIGATE:

Reexamination requested July 10, 2010 by PATENT OWNER, Reexamination No. 90/011,011 (O.G. September 7, 2010) Ex. Gp.: 3992 July 10, 2010

NOTICE OF LITIGATION

Balthert Technologies, LLC v. American Honda Motor Co Inc et al, Filed March 8, 2010, D.C. E.D. Texas, Doc. No. 6:10cv78

APPL-NO: 285312 (10)

FILED-DATE: October 31, 2002

GRANTED-DATE: July 10, 2007

ASSIGNEE-PRE-ISSUE:

February 6, 2003 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., DANA CORPORATION 4500 DORR STREET TOLEDO OHIO 43615, Reel and Frame Number: 013729/0559

ASSIGNEE-AT-ISSUE:

Dana Corporation, Toledo, OHIO, United States of America (US), United States company or corporation (02)

ASSIGNEE-AFTER-ISSUE:

February 22, 2008 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., DANA AUTOMOTIVE SYSTEMS GROUP, LLC 4500 DORR STREET TOLEDO OHIO 43615, 4500 DORR STREET, TOLEDO, OHIO, UNITED STATES OF AMERICA (US), 43615, Reel and Frame Number: 020540/0476

June 12, 2009 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., STRAGENT, LLC 211 W. TYLER, SUITE C LONGVIEW TEXAS 75601, 211 W. TYLER, SUITE C, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 022813/0432

March 8, 2010 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., BALTHER TECHNOLOGIES, LLC, SUITE C-4, 211 W. TYLER, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 024045/0235

PRIM-EXMR: Alavi, Ali

CORE TERMS: headlight, directional, controller, adjustment, sensed, algorithm, sensor, actuator, steering, control system, road, suspension, responsive, automatic, feedback, orientation, beam, aiming, height, generating, electrical, input output device, plane, stored, automatically, optical, pitch, calibration, accomplish, angular

Source: [Legal > / . . . / > Utility, Design and Plant Patents](#) 

Terms: **patno=7241034** ([Edit Search](#) | [Suggest Terms for My Search](#))

View: Custom

Segments: Appl-no, Assign-type, Assignee, Cert-correction, Exmr, Lit-reex, Patno, Reexam-litigate, Reissue, Reissue-comment

Date/Time: Tuesday, May 24, 2011 - 11:34 AM EDT

In

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1. Ohio Inventors Develop Vehicle Headlights Directional Control System, US Fed News, July 12, 2007 Thursday 2:12 AM EST, , 310 words, US Fed News, Alexandria, Va.
2. OLD FREE PRESS A RARE FIND, London Free Press (Ontario, Canada), July 24, 2000, Monday,, Final EDITION, NEWS,, Pg. A4, 295 words, JOE PARASKEVAS, FREE PRESS REPORTER
3. NEW GRASS STAYS GREEN WHEN IT'S DRY, The Augusta Chronicle (Georgia), July 21, 2000, Friday,, ALL EDITIONS, HOMESTEAD,, Pg. C12,, 368 words

Source: **Legal > / . . . / > News, All (English, Full Text)** 

Terms: **7241034 or 7,241,034** (Edit Search | Suggest Terms for My Search)

View: Cite

Date/Time: Tuesday, May 24, 2011 - 11:35 AM EDT

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621	05/16/2011	7,241,034		1240

92045 7590 06/23/2011

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
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EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 06/23/2011

Please find below and/or attached an Office communication concerning this application or proceeding.



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KENYON & KENYON LLP

One Broadway

New York, N.Y. 10004

MAILED

JUN 23 2011

CENTRAL REEXAMINATION UNIT

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621.

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

ORDER GRANTING/DENYING REQUEST FOR INTER PARTES REEXAMINATION	Control No.	Patent Under Reexamination	
	95/001,621	7,241,034	
	Examiner	Art Unit	
	MY-TRANG TON	3992	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

The request for *inter partes* reexamination has been considered. Identification of the claims, the references relied on, and the rationale supporting the determination are attached.

Attachment(s): PTO-892 PTO/SB/08 Other: _____

1. The request for *inter partes* reexamination is GRANTED.

An Office action is attached with this order.

An Office action will follow in due course.

2. The request for *inter partes* reexamination is DENIED.

This decision is not appealable. 35 U.S.C. 312(c). Requester may seek review of a denial by petition to the Director of the USPTO within ONE MONTH from the mailing date hereof. 37 CFR 1.927. EXTENSIONS OF TIME ONLY UNDER 37 CFR 1.183. In due course, a refund under 37 CFR 1.26(c) will be made to requester.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Order.

DECISION GRANTING INTER PARTES EXAMINATION

Summary

Reexamination has been requested for claims 1-5 of U.S. Patent No. 7,241,034 ("the '034 patent") to Smith, entitled "AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS".

The '034 patent is currently assigned to Dana Corporation.

A substantial new question of patentability (SNQ) affecting claims 1-5 of the '034 patent is raised by the present request for inter partes reexamination filed ("the Request").

An Office action on the merits does not accompany this order for *inter partes* reexamination. An Office action on the merits will be provided in due course. Patent owner is reminded that no proposed amendment may be made in this proceeding until after the first Office action on the merits. 37 CFR 1.939(b).

References Relied Upon in the Request

Pages 9-10 of the Request identify the following documents as providing teachings relevant to claims 1-5 of the '034 patent:

1. United Kingdom Patent Application Publication No. 2309773 by Uchida (hereinafter "Uchida").
2. United Kingdom Patent Application Publication No. 2309774 by Takahashi (hereinafter "Takahashi").
3. U.S. Patent No. 5,182,460 by Hussman (hereinafter "Hussman").
4. German Patent Application Publication No. 3110094 by Miskin et al (hereinafter "Miskin et al.").
5. German Patent Application Publication No. 3129891 by Leleve (hereinafter "Leleve").
6. U.S. Patent No. 6,305,823 by Toda et al (hereinafter "Toda et al.").
7. U.S. Patent No. 6,193,398 by Okuchi et al (hereinafter "Okuchi et al.").
8. U.S. Patent No. 5,909,949 by Gotoh (hereinafter "Gotoh").
9. U.S. Patent No. 4,954,933 by Wassen et al (hereinafter "Wassen et al.").

Issues Raised by Requester

The Requester asserts that the cited references raise substantial new questions of patentability when interpreted in the following manner:

1. Claims 1, 2, 4, and 5 are anticipated by Uchida under 35 U.S.C. § 102(b).
2. Claims 1, 2, 4, and 5 are anticipated by Takahashi under 35 U.S.C. § 102(b).
3. Claims 1, 2, 4, and 5 are anticipated by Hussman under 35 U.S.C. § 102(b).
4. Claims 1 and 5 are anticipated by Miskin et al. under 35 U.S.C. § 102(b).
5. Claims 1 and 5 are anticipated by Leleve under 35 U.S.C. § 102(b).
6. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Uchida under 35 U.S.C. § 103(a).
7. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a).
8. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Hussman under 35 U.S.C. § 103(a).
9. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Miskin et al. under 35 U.S.C. § 103(a).

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10. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Leleve under 35 U.S.C. § 103(a).

11. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a).

12. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a).

13. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a).

14. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Miskin et al. under 35 U.S.C. § 103(a).

15. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Leleve under 35 U.S.C. § 103(a).

16. Claims 1 to 5 are unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a).

17. Claims 1 to 5 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a).

18. Claims 1 to 5 are unpatentable over the combination of Gotoh and Hussman under 35 U.S.C. § 103(a).

19. Claims 1, 2, 3, and 5 are unpatentable over the combination of Gotoh and Miskin et al. under 35 U.S.C. § 103(a).

20. Claims 1 to 5 are unpatentable over the combination of Gotoh and Leleve under 35 U.S.C. § 103(a).

21. Proposed claims 1, 2, 4 to 6, 9 to 13, 20, 22, 24, 25, 37, 38, 41, 42, 44 and 45 are anticipated by Uchida under 35 U.S.C. § 102(b).

22. Proposed claims 1, 2, 4-6, 9-11, 17, 18, 20, 21, 22, 24, 25, 28, 33, 34, 37, 38, 41, 42, 44 and 45 are anticipated by Takahashi under 35 U.S.C. § 102(b).

23. Proposed claims 1, 2, 4-6, 9, 10, 37, 38, 41, 42, 44 and 45 are anticipated by Hussman Under 35 U.S.C. § 102(b).

24. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Uchida under 35 U.S.C. § 103(a).

25. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 33, 34, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a).

26. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Hussman under 35 U.S.C. § 103(a).

27. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a).

28. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33-35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al.

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and Takahashi under 35 U.S.C. § 103(a).

29. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a).

30. Proposed claims 1-13, 20, 22, 24-26, 28, 29, 37, 38 and 41 to 45 are unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a).

31. Proposed claims 1-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a).

32. Proposed claims 1-13, 24, 26, 28, 29, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Hussman under 35 U.S.C. § 103(a).

33. Proposed claims 17, 19, 21, 23, 26 and 30-32 are unpatentable in view of the combination of Uchida and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a).

34. Proposed claims 19, 23, 26 and 30-32 are unpatentable in view of the combination of Takahashi and the admitted Prior Art described in the '034 Patent specification under 35 U.S.C. § 103(a).

35. Proposed claims 17-21, 23-26 and 30-32 are unpatentable in view of the combination of Hussman and the admitted Prior Art described in the '034 Patent specification under 35 U.S.C. § 103(a).

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36. Proposed claim 27 is unpatentable over the combination of Uchida and Wassen et al. under 35 U.S.C. § 103(a).

37. Proposed claim 27 is unpatentable over the combination of Takahashi and Wassen et al. under 35 U.S.C. § 103(a).

38. Proposed Claim 27 is unpatentable over the combination of Hussman and Wassen et al. under 35 U.S.C. § 103(a).

*** Regarding issues 21-38: Since the Ex Parte Reexamination (90/011,011) of the '034 patent is still pending, the amendment (filed 2/16/2011) is not officially in effect yet in the '034 patent. According to 35 USC 312, an SNQ is raised for "**any claim of the patent**", so at this time the Examiner only addresses the patented claims in this Inter parte Reexamination (95/001,621) of the '034 patent. The Requester can discuss the new and amended claims in the Request; however, only the Requester's assertions regarding SNQs in issues 1-20 for patented claims are evaluated herein. Issues 21-38 will not be evaluated until the Inter Parte and Ex Parte are merged. The Patent Owner will have to put the same amended/new claims in the Inter Parte case, and those amended and new claims in the merged case will be evaluated. See MPEP 2643 and 2640(II)(A).

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The patent claims in effect at the time of the determination will be the basis for deciding whether a substantial new question of patentability has been raised (37 CFR 1.923). See MPEP § 2643. Amendments which (A) have been filed in a copending reexamination proceeding in which the reexamination certificate has not been issued, or (B) have been submitted in a reissue application on which no reissue patent has been issued, will not be considered or commented upon when deciding a request for reexamination.

Therefore, this request will be decided on the wording of the patent claims in effect at the present time (without any proposed amendments). The decision on the request will be made on the basis of the patent claims as though the proposed amendment had not been presented.

Summary:

1/ It is agreed issues 1-2, 4-7, 9-12, 14-17 and 19-20 raise SNQs as to claims 1-5 of the '034 patent.

2/ Issues 3, 8, 13 and 18 are found not to raise SNQ as to claims 1-5 of the '034 patent.

3/ Issues 21-38 will not be evaluated at this time.

Prosecution History

The description of the prosecution history included on pages 3-7 of the request is accepted and is incorporated herein by reference. It is accepted that the Examiner of record issued non-final Office action on 12/23/2003 including: rejected claims 1-2, 4-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Toda et al (U.S. Pat. No 6,305,823); rejected claims 1-2, 4-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Okuchi et al (U.S. Pat. No 6,193,398); and rejected claims 1-3 and 9 under 35 U.S.C. 102(b) as being anticipated by Gotoh (US Pat. No 5,909,949).

The Patent Owner complied with such requirements by submitting an amendment on 3/25/2004 which amendment to claims 1 and 7 and canceled claim 6. Thus, in this amendment claims 1-5 and 7-13 were pending. Of these, claims 1 and 7 were independent claims.

In response to the amendment, the Examiner of record issued a final Office action on 6/15/2004 including rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Toda et al (U.S. Pat. No 6,305,823); rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Okuchi et al (U.S. Pat. No 6,193,398) and rejected claims

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1-3 and 9 under 35 U.S.C. 102(b) as being anticipated by Gotoh (US Pat. No 5,909,949).

The Patent Owner submitted Notice of Appeal on 9/17/2004 and a request for reconsideration on 12/28/2004. The Patent Owner noted in the remark that for claim 1: *"None of the art of record is believed to show or suggest a controller that is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than a predetermined amount"* and claim 7: *"None of the art of record is believed to show or suggest a controller that is responsive to a rate of change of the sensor signal for generating the output signal"*.

In response, the Examiner of record issued an Advisor Action on 12/28/2004 indicated that *"The prior art of record including Toda et al in particular reads on independent claims 1 and 7. Regarding claims 1 and 7, Toda discloses an automatic leveling device for vehicle headlamps including a sensor (speed sensor 12 and height sensor 14 fig. 1), a controller (CPU 16), an actuator (motor driver 18, and 20). Therefore, Toda meets the limitation of claims 1 and 7 and thus rejection of claims 1-5, and 7-13 are maintained"*.

Notice of Abandonment mailed out 2/22/2005.

RCE was filed on 2/28/2005 after personal interview held on 2/26/2005 (noted in preliminary remark 02/28/2005).

In response to the RCE, the Examiner of record issued a non-final Office action on 4/14/2005 including rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Toda et al (U.S. Pat. No 6,305,823); rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Okuchi et al (U.S. Pat. No 6,193,398); and rejected claims 1-3 and 9 under 35 U.S.C. 102(b) as being anticipated by Gotoh (US Pat. No 5,909,949).

The Patent Owner complied with such requirements by submitting remarks on 7/18/2005 with argument stating that *"In independent Claim 1, the claimed controller is responsive to a sensor signal for generating an output signal when the sensor signal changes by more than a predetermined amount"* and *"In independent Claim 7, the claimed controller is responsive to a rate of change of the sensor signal for generating the output signal"*

In response to the remarks, the Examiner of record issued a final Office action on 10/5/2005 including rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Toda et al (U.S. Pat. No 6,305,823); rejected claims 1-2, 4-5, 7-8, 10-13 under 35 U.S.C. 102(e) as being anticipated by Okuchi et al (U.S. Pat. No 6,193,398) and rejected claims 1-3 and 9 under 35 U.S.C. 102(b) as being anticipated by Gotoh (US Pat. No 5,909,949).

The Patent Owner complied with such requirement by submitting a notice of Appeal filed 1/9/2006.

In response, a pre-Appeal brief conference has been held on 2/3/2006 and a panel from the pre-appeal conference has determined that forwarded rejected claims 1-13 to Board of Patent Appeals and Interferences.

The examiner of record issued notice of abandonment mailed out 4/6/2006.

In response to the notice of abandonment, Patent Owner filed request for withdrawal of holding of abandonment filed on 7/11/2006.

RCE was filed on 8/9/2006 including previously presented claims 1-5, 7-13 and added claim 14. Thus, in the RCE claims 1-5 and 7-14 were pending. Of these, claims 1, 7 and 14 were independent claims.

The decision for withdrawal of holding of abandonment was granted and the Notice of Abandonment was vacated on 9/29/2006.

In response to the RCE, the Examiner of record issued a non final Office action on 10/6/2006 including rejected claims 1-2, 4-5, 7-8, 10-14 under 35 U.S.C. 102(e) as being anticipated by Toda et al (U.S. Pat. No 6,305,823); rejected claims 1-2, 4-5, 7-8, 10-14 under 35 U.S.C. 102(e) as being anticipated by Okuchi et al (U.S. Pat. No 6,193,398) and rejected claims 1-3

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and 9 under 35 U.S.C. 102(b) as being anticipated by Gotoh (US Pat. No 5,909,949).

The Patent Owner complied with such requirement by submitting remarks on 1/10/2007 and argued that *"Independent Claim 1 recites that the controller is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than a predetermined amount. Independent Claim 14 recites that the controller is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition. The cited references fail to disclose either of these features"* and *"claim 7 recites that the controller is responsive to a rate of change of the sensor signal for generating the output signal. The Toda et al. and the Okuchi et al. references fail to disclose this feature"*.

A personal interview held on 1/31/2007. The Examiner of record noted in the interview summary stating *"We discussed independent claims 1, 7, and 14. We agreed that claim 14 is allowable over the prior art of record because of the specific limitation of "a predetermined minimum threshold amount to prevent the actuator from being operated continuously or duly in response to relatively small variations in the sensed operating speed"*.

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On the same day, the Patent Owner submitted an amendment including canceled claims 1, 6-13 and amended claims 2-5 to depend from claim 14. Thus, in this amendment claims 2-5 and 14 were pending. Of these, claim 14 was independent claim.

Notice of allowance was mailed on 4/19/2007 with a statement of reasons for allowance: "*applicant's amendment and accompanying remarks has persuaded the examiner to place this application in condition for allowance.*"

Claims 2-5 and 14 were renumbered, the same numbering that appears in the base patent.

Thus, it appears from the Examiner's Statement of Reasons for allowance included in the base patent prosecution history that at the time of allowance, claims 2-5 and 14 were perceived as including at least the limitation "*a predetermined minimum threshold amount to prevent said actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition*" (the remark 1/10/2007) and the base patent issued for that reason.

In summary, a reference or combination of references teaching "*a controller a predetermined minimum threshold amount to prevent said actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition*" or equivalents thereof will be accepted as raising an SNQ and any reference or combination

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that provides a portion of the critical limitations that is not cumulative to the teachings of record will also be accepted as raising an SNQ.

The above SNQ is based in part on patents and/or printed publications already cited/considered in an earlier concluded examination of the patent being reexamined. On November 2, 2002, Public Law 107-273 was enacted. Title III, Subtitle A, Section 13105, part (a) of the Act revised the reexamination statute by adding the following new last sentence to 35 U.S.C. 303(a) and 312(a):

“The existence of a substantial new question of patentability is not precluded by the fact that a patent or printed publication was previously cited by or to the Office or considered by the Office.”

For any reexamination ordered on or after November 2, 2002, the effective date of the statutory revision, reliance on previously cited/considered art, i.e., “old art,” does not necessarily preclude the existence of a substantial new question of patentability (SNQ) that is based exclusively on that old art. Rather, determinations on whether a SNQ exists in such an instance shall be based upon a fact-specific inquiry done on a case-by-case basis.

In the present instance, there exists a SNQ based in part on Gotoh, Okuchi and Toda. A discussion of the specifics now follows:

With regard to Gotoh, Okuchi and Toda, which were the subject of extensive written discussion on the record of the base application, it is clear that the request presents their teachings in a new light. Gotoh, Okuchi and Toda are now presented in the request in combination with Uchida, Takahashi, Hussman, Miskin and Leleve. Insofar as these references were previously not of record; Gotoh, Okuchi and Toda are not presented in a manner that conflicts with a finding from the prosecution history but instead is presented in a new light. See *Ex parte Chicago Rawhide Mfg. Co.*, 223 USPQ 351 (Bd. Pat. App. & Inter. 1984).

Analysis

Issue 1: The request indicates that Requester considers claims 1, 2, 4 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by Uchida.

It is agreed that the consideration of Uchida raises a substantial new question of patentability for claims 1, 2, 4 and 5 of the '034 patent. As presented in the detailed explanation in the request, pp. 16-17, a reasonable examiner would consider Uchida important in making a decision as to the patentability of claims 1, 2, 4 and 5 of the '034 patent.

Uchida appears to teach a vehicle lamp illumination directional control device which detects the posture of a vehicle and adjusts the illumination direction of a vehicle lamp so that the illumination direction can always be kept

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in a predetermined direction including a controller (3) that is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than **a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition** (page 4, lines 16-27, page 10, line 26 to page 11, line 6).

Sine this teaching is directly related to subject matter considered as the basis for allowability of the patent claim, a reasonable examiner would consider this teaching important in determining the patentability of claim 1. More particularly, the item matching in the claim chart, pages 1-6 offered by Requester is deemed plausible to the degree that further consideration is warranted.

There is a substantial likelihood that a reasonable examiner would consider this teaching important in deciding whether or not claim 1 is patentable. The prosecution history of the base application does not indicate that Uchida was included for consideration by the examiner in charge of the base application. Accordingly, such teaching is not cumulative to any written discussion on the record of the teachings of the prior art, was not previously considered nor addressed during a prior examination and the same question of patentability was not the subject of a final holding of invalidity by Federal Courts.

Because dependent claims 2, 4 and 5 carry all of the limitations of the independent claim 1 from which its stem, by raising a substantial new question of patentability with regard to independent claim 1, the reference implicitly raises a substantial new question of patentability for claims 2, 4 and 5.

Issue 2: The request indicates that Requester considers claims 1, 2, 4 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by Takahashi.

It is agreed that the consideration of Takahashi raises a substantial new question of patentability for claims 1, 2, 4 and 5 of the '034 patent. As presented in the detailed explanation in the request, pp. 17-19, a reasonable examiner would consider Takahashi important in making a decision as to the patentability of claims 1, 2, 4 and 5 of the '034 patent.

Takahashi appears to teach a vehicle lamp illumination direction control device which detects the posture of a vehicle and correctly adjusts the illumination direction of a vehicle lamp to maintain it in a predetermined direction including a controller (4) that is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than **a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition** (page 9, line 16 – page 10, line 3; page 10, line 20 to page 11, line 11).

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Sine this teaching is directly related to subject matter considered as the basis for allowability of the patent claim, a reasonable examiner would consider this teaching important in determining the patentability of claim 1. More particularly, the item matching in the claim chart, pages 7-12 offered by Requester is deemed plausible to the degree that further consideration is warranted.

There is a substantial likelihood that a reasonable examiner would consider this teaching important in deciding whether or not claim 1 is patentable. The prosecution history of the base application does not indicate that Takahashi was included for consideration by the examiner in charge of the base application. Accordingly, such teaching is not cumulative to any written discussion on the record of the teachings of the prior art, was not previously considered nor addressed during a prior examination and the same question of patentability was not the subject of a final holding of invalidity by Federal Courts.

Because dependent claims 2, 4 and 5 carry all of the limitations of the independent claim 1 from which its stem, by raising a substantial new question of patentability with regard to independent claim 1, the reference implicitly raises a substantial new question of patentability for claims 2, 4 and 5.

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Issue 3: The request indicates that Requester considers claims 1, 2, 4 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hussman.

It is not agreed that the consideration of Hussman raises a substantial new question of patentability for claims 1, 2, 4 and 5 of the '034 patent.

As pointed out on page 20 of the request, and the claim chart, pages 13-14, the requester indicates that Hussman teaches a controller that is responsive to the sensor signal for performing the recited functions at col. 3, lines 30-39 and lines 49-61; col. 4, lines 6-12 and col. 6, lines 51-64.

However, these paragraphs do not teach the limitation **"a controller that is responsive to the sensor signal for generating an output signal only when the sensor signal changes by more than a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition"** as recited in claim 1.

Hussman merely teaches:

"The curve-recognition device K is electrically conductively coupled with the switchover device SE and thereby couples the third filter F3 electrically conductively with the regulator R if a difference signal other than zero is fed to it from the subtractor SU. When no difference signal from the subtractor SU is present, the curve-recognition device K switches the switchover device SE so that the first filter F1 is coupled to the regulator R" (col. 3, lines 30-39)

"At the coupling between the switchover device SE and the regulator R, a matching device AE is, here for example, arranged which, upon a switchover by the switchover device SE, adjusts the various nominal values to one another so that discontinuities or jumps in the adjustment and regulation of the illumination range are avoided". (col. 4, lines 6-12)

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There is no evidence presented that Hussman teaches a controller would include the same function as called for in claim 1. Thus, Hussman does not teach a key element of claim 1. As such, a reasonable examiner would not consider Hussman important in deciding whether or not the claims are patentable.

Because claims 2, 4 and 5 depend from claim 1, thus, Hussman also fails to raise SNQ to claims 2, 4 and 5.

Issue 4: The request indicates that Requester considers claims 1 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by Miskin.

It is agreed that the consideration of Miskin raises a substantial new question of patentability for claims 1 and 5 of the '034 patent. As presented in the detailed explanation in the request, p. 21, a reasonable examiner would consider Miskin important in making a decision as to the patentability of claims 1 and 5 of the '034 patent.

Miskin appears to teach a device for adjusting vehicle headlights automatically including a controller (2-4) that is responsive to the sensor signal (S1-S4) for generating an output signal only when the sensor signal changes by more than **a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in**

response to relatively small variations in the sensed operating condition

(page 5)

Sine this teaching is directly related to subject matter considered as the basis for allowability of the patent claim, a reasonable examiner would consider this teaching important in determining the patentability of claim 1. More particularly, the item matching in the claim chart, pages 17-19 offered by Requester is deemed plausible to the degree that further consideration is warranted.

There is a substantial likelihood that a reasonable examiner would consider this teaching important in deciding whether or not claim 1 is patentable. The prosecution history of the base application does not indicate that Miskin was included for consideration by the examiner in charge of the base application. Accordingly, such teaching is not cumulative to any written discussion on the record of the teachings of the prior art, was not previously considered nor addressed during a prior examination and the same question of patentability was not the subject of a final holding of invalidity by Federal Courts.

Because dependent claim 5 carries all of the limitations of the independent claim 1 from which it stems, by raising a substantial new question of patentability with regard to independent claim 1, the reference implicitly raises a substantial new question of patentability for claim 5.

Issue 5: The request indicates that Requester considers claims 1 and 5 are rejected under 35 U.S.C. § 102(b) as being anticipated by Leleve.

It is agreed that the consideration of Leleve raises a substantial new question of patentability for claims 1 and 5 of the '034 patent. As presented in the detailed explanation in the request, p. 22, a reasonable examiner would consider Leleve important in making a decision as to the patentability of claims 1 and 5 of the '034 patent.

Leleve appears to teach a device for the dynamic adjustment of the headlights of a vehicle including a controller (3, 4, 6) that is responsive to the sensor signal (1-2) for generating an output signal only when the sensor signal changes by more than **a predetermined minimum threshold amount to prevent the actuator from being operated continuously or unduly frequently in response to relatively small variations in the sensed operating condition** (Fig. 2).

Sine this teaching is directly related to subject matter considered as the basis for allowability of the patent claim, a reasonable examiner would consider this teaching important in determining the patentability of claim 1. More particularly, the item matching in the claim chart, pages 20-21 offered by Requester is deemed plausible to the degree that further consideration is warranted.

There is a substantial likelihood that a reasonable examiner would consider this teaching important in deciding whether or not claim 1 is patentable. The prosecution history of the base application does not indicate that Leleve was included for consideration by the examiner in charge of the base application. Accordingly, such teaching is not cumulative to any written discussion on the record of the teachings of the prior art, was not previously considered nor addressed during a prior examination and the same question of patentability was not the subject of a final holding of invalidity by Federal Courts.

Because dependent claim 5 carries all of the limitations of the independent claim 1 from which its stem, by raising a substantial new question of patentability with regard to independent claim 1, the reference implicitly raises a substantial new question of patentability for claim 5.

Issues 6, 11 and 16: The request indicates that Requester considers that claims 1, 2, 4 and 5 are unpatentable under 35 USC 103(a) over Toda in view of Uchida (issue 6); or over Okuchi in view of Uchida (issue 11); or over Gotoh in view of Uchida (claims 1-5 in issue 16).

We have already found Uchida proposed in issue 1 above raises SNQ regarding claims 1, 2, 4 and 5 of the '034 patent, and as a result, Uchida with any plausible combination of valid prior art references (i.e, Toda, Okuchi and

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Gotoh) implicitly raise a substantial new question of patentability for claims 1-5.

The teachings of the above combinations are not cumulative to any written discussion on the record of the teachings of the prior art, were not previously considered nor addressed during a prior examination, and the same question was not the subject of a final holding of invalidity in the Federal Courts.

Issues 7, 12 and 17: The request indicates that Requester considers that claims 1, 2, 4 and 5 are unpatentable under 35 USC 103(a) over Toda in view of Takahashi (issue 7); or over Okuchi in view of Takahashi (issue 12); or over Gotoh in view of Takahashi (claims 1-5 in issue 17).

We have already found Takahashi proposed in issue 2 above raises SNQ regarding claims 1, 2, 4 and 5 of the '034 patent, and as a result, Takahashi with any plausible combination of valid prior art references (i.e, Toda, Okuchi and Gotoh) implicitly raise a substantial new question of patentability for claims 1-5.

The teachings of the above combinations are not cumulative to any written discussion on the record of the teachings of the prior art, were not previously considered nor addressed during a prior examination, and the same

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question was not the subject of a final holding of invalidity in the Federal Courts.

Issues 8, 13 and 18: The request indicates that Requester considers that claims 1, 2, 4 and 5 are unpatentable under 35 USC 103(a) over Toda in view of Hussman (issue 8); or over Okuchi in view of Hussman (issue 13); or over Gotoh in view of Hussman (claims 1-5 in issue 18).

It is not agreed that consideration of Toda in view of Hussman (issue 8), Okuchi in view of Hussman (issue 13) or Gotoh in view of Hussman (issue 18) raise a substantial new question of patentability with regard to claims 1-5 of the '034 patent. More particularly, without the additional teachings of Hussman, Toda or Okuchi or Gotoh is not presented in a different light than it was presented in the prosecution history. Moreover, as indicated above issue 3, Hussman does not include the teachings identified "a controller ... in response to relatively small variations in the sensed operating condition" as having the significance of an SNQ.

Neither Toda (or Okuchi or Gotoh) nor Hussman teaches a key element of claim 1. As such, a reasonable examiner would not consider their combination important in deciding whether or not the claims are patentable.

Issues 9, 14 and 19: The request indicates that Requester considers that claims 1, 2, 4 and 5 are unpatentable under 35 USC 103(a) over Toda in view of Miskin (issue 9); or over Okuchi in view of Miskin (issue 14); or over Gotoh in view of Miskin (issue 19).

We have already found Miskin proposed in issue 4 above raises SNQ regarding claims 1 and 5 of the '034 patent, and as a result, Miskin with any plausible combination of valid prior art references (i.e, Toda, Okuchi and Gotoh) implicitly raise a substantial new question of patentability for claims 1, 2, 4 and 5.

The teachings of the above combinations are not cumulative to any written discussion on the record of the teachings of the prior art, were not previously considered nor addressed during a prior examination, and the same question was not the subject of a final holding of invalidity in the Federal Courts.

Issues 10, 15 and 20: The request indicates that Requester considers that claims 1, 2, 4 and 5 are unpatentable under 35 USC 103(a) over Toda in view of Leleve (issue 10); or over Okuchi in view of Leleve (issue 15); or over Gotoh in view of Leleve (for claims 1-5 in issue 17).

Art Unit: 3992

We have already found Leleve proposed in issue 5 above raises SNQ regarding claims 1 and 5 of the '034 patent, and as a result, Leleve with any plausible combination of valid prior art references (i.e, Toda, Okuchi and Gotoh) implicitly raise a substantial new question of patentability for claims 1-5.

The teachings of the above combinations are not cumulative to any written discussion on the record of the teachings of the prior art, were not previously considered nor addressed during a prior examination, and the same question was not the subject of a final holding of invalidity in the Federal Courts.

Information Disclosure Statement

The Information Disclosure Statement filed 5/16/11 is acknowledged. As current Central Reexamination Unit policy is that court documents are not prior art as such and are not to be listed on an IDS. It have been lined through. It is noted the court documents have been read and considered, and any duty to disclose such documents is deemed satisfied.

Conclusion

Extensions of time under 37 CFR 1.136(a) will not be permitted in inter partes reexamination proceedings because the provisions of 37 CFR 1.136 apply only to “an applicant” and not to the patent owner in a reexamination proceeding. Additionally, 35 U.S.C. 314(c) requires that inter partes reexamination proceedings “will be conducted with special dispatch” (37 CFR 1.937). Patent owner extensions of time in inter partes reexamination proceedings are provided for in 37 CFR 1.956. Extensions of time are not available for third party requester comments, because a comment period of 30 days from service of patent owner’s response is set by statute. 35 U.S.C. 314(b)(3).

The patent owner is reminded of the continuing responsibility under 37 CFR 1.985(a), to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving the patent undergoing reexamination throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly inform the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § 2686 and 2686.04.

Art Unit: 3992

NOTICE RE PATENT OWNER'S CORRESPONDENCE ADDRESS

Effective May 16, 2007, 37 CFR 1.33(c) has been revised to provide that:

The patent owner's correspondence address for all communications in an *ex parte* reexamination or an *inter partes* reexamination is designated as the correspondence address of the patent.

Revisions and Technical Corrections Affecting Requirements for Ex Parte and Inter Partes Reexamination, 72 FR 18892 (April 16, 2007)(Final Rule)

The correspondence address for any pending reexamination proceeding not having the same correspondence address as that of the patent is, by way of this revision to 37 CFR 1.33(c), automatically changed to that of the patent file as of the effective date.

This change is effective for any reexamination proceeding which is pending before the Office as of May 16, 2007, including the present reexamination proceeding, and to any reexamination proceeding which is filed after that date.

Parties are to take this change into account when filing papers, and direct communications accordingly.

Art Unit: 3992

In the event the patent owner's correspondence address listed in the papers (record) for the present proceeding is different from the correspondence address of the patent, it is strongly encouraged that the patent owner affirmatively file a Notification of Change of Correspondence Address in the reexamination proceeding and/or the patent (depending on which address patent owner desires), to conform the address of the proceeding with that of the patent and to clarify the record as to which address should be used for correspondence.

After the filing of a request for reexamination by a third party requester, any document filed by either the patent owner or the third party requester must be served on the other party (or parties where two or more third party requester proceedings are merged) in the reexamination proceeding in the manner provided in 37 CFR 1.248. See 37 CFR 1.903.

Art Unit: 3992

All correspondence relating to this *inter partes* reexamination proceeding should be directed:

By Mail to: Mail Stop *Inter Partes* Reexam
Attn: Central Reexamination Unit
Commissioner for Patents United States Patent & Trademark
Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571).273-9900
Central Reexamination Unit

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning" process is complete.

Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

Signed:

/My-Trang N. Ton/
Primary Examiner, CRU 3992

/Margaret Rubin/
Primary Examiner, CRU 3992



MARK J. REINHART
SPRE-AU 3992
CENTRAL REEXAMINATION UNIT

LIST OF DOCUMENTS CITED BY THIRD PARTY REQUESTER IN <i>INTER PARTES</i> REEXAMINATION	PATENT NO. 7,241,034	PATENTEE James E. SMITH et al.
	PATENT DATE July 10, 2007	

U. S. PATENT DOCUMENTS

EXAM. INITIAL	PATENT/PUBLICATION NUMBER	NAME	PATENT/PUBLICATION DATE	CLASS	SUBCLASS	FILING DATE
/M.T./	4,954,933	Wassen et al.	September 4, 1990			
/M.T./	5,182,460	Hussman	January 26, 1993			
/M.T./	5,909,949	Gotoh	June 8, 1999			
/M.T./	6,193,398	Okuchi et al.	February 27, 2001			
/M.T./	6,305,823	Toda et al.	October 23, 2001			

FOREIGN PATENT DOCUMENTS


EXAMINER INITIAL	DOCUMENT NUMBER	COUNTRY	DATE	NAME	SUBCLASS	TRANSLATION	
						YES	NO
/M.T./	31 29 891	DE	June 9, 1982			X	
/M.T./	31 10 094	DE	September 30, 1982			X	
/M.T./	2 309 773	GB	August 6, 1997				X
/M.T./	2 309 774	GB	August 6, 1997				X

OTHER DOCUMENTS

EXAMINER INITIAL	Name
	"Original Complaint for Patent Infringement," filed on March 8, 2010, <i>BALTHER TECHNOLOGIES, LLC. v. AM. HONDA MOTOR CO. INC., et al.</i>, Case No. 6:10-CR-78-LED (E.D. Tex.).
	"Plaintiff's Notice of Voluntary Dismissal," filed on May 17, 2010, <i>BALTHER TECHNOLOGIES, LLC. v. AM. HONDA MOTOR CO. INC., et al.</i>, Case No. 6:10-CR-78-LED (E.D. Tex.).
	"Order" dated May 18, 2010, <i>BALTHER TECHNOLOGIES, LLC. v. AM. HONDA MOTOR CO. INC., et al.</i>, Case No. 6:10-CR-78-LED (E.D. Tex.).
/M.T./	Certified English-language translation of German Patent Application Publication No. 31 10 094 to Miskin et al.
/M.T./	Certified English-language translation of German Patent Application Publication No. 31 29 891 to Leleve.

EXAMINER /My Trang Ton/ (06/15/2011)	DATE CONSIDERED (06/15/2011)
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Reexamination 	Application/Control No. 95/001,621	Applicant(s)/Patent Under Reexamination 7,241,034
	Certificate Date	Certificate Number

Requester Correspondence Address: <input type="checkbox"/> Patent Owner <input checked="" type="checkbox"/> Third Party
KENYON & KENYON LLP One Broadway New York, N.Y. 10004

LITIGATION REVIEW <input checked="" type="checkbox"/>	(examiner initials) mt	6/9/11 (date)
Case Name		Director Initials
U.S. District - Texas Eastern (Tyler) 6:10CV78 Balthar Technologies, Llc v. American Honda Motor Co Inc et A		<i>mt for IC/</i>

COPENDING OFFICE PROCEEDINGS	
TYPE OF PROCEEDING	NUMBER
1. 90/011,011	
2.	
3.	
4.	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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95/001,621 - 90611011	05/16/2011	7,241,034		1240
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92045	7590	02/23/2012		
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The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER

ART UNIT	PAPER NUMBER
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DATE MAILED: 02/23/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patents and Trademark Office
P.O.Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

DO NOT USE IN PALM PRINTER

THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS
KENYON & KENYON LLP
ONE BROADWAY
NEW YORK, NY 10004

Date: 2-23-12

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NO. : 95001621 * 90/011011
PATENT NO. : 7241034
TECHNOLOGY CENTER : 3999
ART UNIT : 3992

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified Reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the inter partes reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an ex parte reexamination has been merged with the inter partes reexamination, no responsive submission by any ex parte third party requester is permitted.

All correspondence relating to this inter partes reexamination proceeding should be directed to the Central Reexamination Unit at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

PTOL-2070(Rev.07-04)



The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas TX 75229

(For Patent Owner)

Kenyon & Kenyon LLP
One Broadway
New York, NY 10004

(For the '1621 Requester)

In re Smith et al.
Ex Parte Reexamination Proceeding
Control No.: 90/011,011
Filed: July 10, 2010
For: U.S. Patent No. 7,241,034

:
:
:
: **DECISION**
: **SUA SPONTE**
: **TO MERGE**
: **REEXAMINATION**
: **PROCEEDINGS**

In re Smith et al.
Inter Partes Reexamination Proceeding
Control No.: 95/001,621
Filed: May 16, 2011
For: U.S. Patent No.: 7,241,034

:
:
:

The above-captioned reexamination proceedings are before the Office of Patent Legal Administration for *sua sponte* consideration on merging the above proceedings.

Ex parte reexamination proceeding No. 90/011,011 and *inter partes* reexamination proceeding No. 95/001,621 **are merged** into a single proceeding.

BACKGROUND

1. On July 10, 2007, United States Patent Number 7,241,034 (“the ‘034 patent”) issued to Smith *et al.* with 5 claims.
2. On July 10, 2010, patent owner filed a request for *ex parte* reexamination of claims 1 and 3 of the ‘034 patent, which was assigned control number 90/011,011 (“the ‘11011 proceeding”).¹
3. On August 12, 2010, *ex parte* reexamination of claims 1 and 3 of the ‘034 patent was granted in the ‘11011 reexamination proceeding.
4. On October 12, 2010, the time period for submission of a patent owner’s statement under 37 CFR 1.530(b) expired.

¹ Patent owner originally deposited a request on May 25, 2010 that was found incomplete by the Office and was subsequently supplemented until found sufficient to grant a filing date of July 10, 2010.

5. On January 12, 2011, the Office issued a non-final rejection in the '11011 proceeding.
6. On January 18, 2011, patent owner timely filed an informal/non-responsive amendment after an Office action.
7. On February 16, 2011, patent owner timely filed a substitute amendment, which amended claims 1-5 and added new claims 6-45.
8. On May 16, 2011, a request for *inter partes* reexamination of claims 1-5 of the '034 patent was filed by a third party requester, which was assigned Reexamination Control No. 95/001,621 ("the '1621 proceeding"). The request identified Volkswagen Group of America, Inc. ("the 1621 requester") as the real party in interest.
9. On June 23, 2011, *inter partes* reexamination of claims 1-5 of the '034 patent was granted in the '1621 proceeding.
10. On January 18, 2012, the Office issued a Notice of Defective Paper in the '11011 proceeding requesting correction of the February 16, 2011 substitute amendment.
11. On February 2, 2012, patent owner timely filed a second substitute amendment, which amended claims 1-5 and added new claims 6-41.
12. To date, no Office action has issued in the '1621 proceeding.

DECISION

I. MERGER OF PROCEEDINGS

Reexamination has been ordered in the above-captioned two proceedings for overlapping claims of the same patent. One of the proceedings (the '11011 proceeding) is an *ex parte* proceeding. The other proceeding (the '1621 proceeding) is an *inter partes* proceeding. Both proceedings are still pending, and have not been terminated. The time period for filing a patent owner statement under 37 CFR 1.530 in the *ex parte* proceeding has expired. Therefore, consideration of merger is ripe at this point in time.

MPEP 2686.01 points out:

Where a second request for reexamination is filed and reexamination is ordered, and a first reexamination proceeding is pending, the proceedings will be merged where the Office (in its discretion) deems it appropriate to do so, to facilitate the orderly handling of the proceedings. However, a decision not to merge is within the sole discretion of the Office to facilitate/carry out the statutory mandate of 35 U.S.C. 314(c) to conduct reexamination proceedings with "special dispatch."

In this instance, based upon the record as a whole, it is found, based on the facts as they exist at present, that merger of the proceedings should facilitate the orderly handling of the proceedings with special dispatch. Accordingly, the 90/011,011 and 95/001,621 proceedings **are hereby merged**. The merged proceeding will be conducted in accordance with the guidelines and requirements that follow.

II. THE SAME CLAIMS MUST BE MAINTAINED IN BOTH PROCEEDINGS

Patent owner is required to maintain the same claims (and specification) in both files throughout the merged proceeding. An amendment accompanied the patent owner's statement in the '11011 *ex parte* reexamination proceeding. Originally issued claims 1-5 have all been amended and new claims 6-41 have been added in the '11011 *ex parte* proceeding, while the claims in the '1621 *inter partes* proceeding have not been so amended. Thus, the claims are not currently the same in both proceeding files. An Office action requiring an amendment placing the claims of both proceedings in identical form is being issued concurrently with this decision. Patent owner must respond to the Office action in accordance with the procedure provided in 37 CFR 1.111. The *inter partes* third party requester will then have an opportunity to comment on patent owner's response in accordance with the procedures in 37 CFR 1.947.

The patent owner is required to maintain the same claims (and specification) in both files *throughout the merged proceeding*.

III. CONDUCT OF MERGED PROCEEDING

A. Governing regulations for the merged proceeding:

The present decision merges an *ex parte* reexamination proceeding with an *inter partes* reexamination proceeding. Pursuant to 37 CFR 1.989(b), the merged proceeding is governed by 37 CFR 1.902 through 1.997.

B. *Inter partes* Third Party Requester Participation:

1. Comment rights:

The *inter partes* requester can comment pursuant to 35 U.S.C. 314(b)(2).² First, an *inter partes* requester's right to comment is contingent upon the patent owner responding to, or commenting on, an Office action. Second, the *inter partes* requester's right to comment is limited to issues raised in either the Office action or the patent owner's response to the action. Finally, the *inter partes* requester's comments must be submitted within 30 days from the date of service of the patent owner's response. An *inter partes* requester does not have a right to comment on any issue raised outside the confines of the statute, e.g. issues raised in a previous Office action (but

² Each time that the patent owner files a response to an action on the merits from the Patent and Trademark Office, the *inter partes* third-party requester shall have one opportunity to file written comments addressing issues raised by the action of the Office or the patent owner's response thereto, if those written comments are received by the Office within 30 days after the date of service of the patent owner's response.

not raised in the most recent Office action or response) or the request and comments from the *ex parte* requester. The *inter partes* requester's comments must be submitted within the statutory time period of 30 days from date of service of the patent owner's response.

2. Appeal Rights:

A discussion of third party requester's appeal rights can be found in section G below.

C. Papers mailed/filed:

All papers mailed by the Office throughout the merged proceeding will take the form of a single action which applies to both proceedings. All papers issued by the Office, or filed by the patent owner and the third party requester, will contain the identifying data for both files and will be physically entered in each reexamination file. All papers filed by the patent owner and the third party requester must consist of a single paper, **filed in duplicate**, each bearing a signature and identifying data for both files, for entry into each file.

All papers filed by the patent owner and the third party requesters should be directed:

by Mail to: Attn: Mail Stop "*Inter Partes* Reexam"
 Central Reexamination Unit
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

by FAX to: (571) 273-9900
 Central Reexamination Unit

by Hand to: Customer Service Window
 Attn: Central Reexamination Unit
 Randolph Building, Lobby Level
 401 Dulany Street
 Alexandria, VA 22314

by EFS: Registered users may submit papers via the
 electronic filing system EFS-Web, at:

 [https:// efs.uspto.gov/efile/myportal/efs-registered](https://efs.uspto.gov/efile/myportal/efs-registered).

The patent owner and the *inter partes* requester are reminded that every paper filed (including papers filed *via* facsimile transmission) in the merged proceeding subsequent to this decision must be served on the other party, and every paper filed must reflect that such paper was served on the other party in the merged proceeding, pursuant to 37 CFR 1.903. All papers are to be addressed to the Central Reexamination Unit as provided above.

D. Amendments:

The filing of any amendments to the drawings, specification or claims must comply with 37 CFR 1.943, which incorporates the provisions of 37 CFR 1.530, and the guidelines of MPEP § 2666.01, which in turn references the guidelines of MPEP § 2250.

37 CFR 1.121 does not apply to amendments in reexamination. Accordingly, clean copies of the amended claims are not required and are not to be submitted; rather amendments are to be presented via markings pursuant to paragraph 37 CFR 1.530(f), except that a claim should be canceled by a statement canceling the claim, without presentation of the text of the claim.

Pursuant to 37 CFR 1.530(i), all amendments must be made relative to the patent specification, including the claims, and drawings, which are in effect as of the date of filing the request for reexamination. *Amendments are not to be made relative to previous amendments.* Thus, for all amendments, all words not appearing in the patent are always underlined, and only words being deleted from the patent appear in brackets.

E. Fees:

Where a paper is filed that requires payment of a fee (*e.g.*, petition fee, excess claims fee, extension of time fee, appeal fee, brief fee, oral hearing fee), only a single fee need be paid. For example, only one fee need be paid for any patent owner's appellant brief (or that of the *inter partes* reexamination requester) which may be filed, even though the brief relates to merged multiple proceedings, and copies must be filed (as pointed out above) for each file in the merged proceeding.

F. Citation of Patents and Printed Publications:

Upon return of the present merged proceeding to the examiner, the examiner will review the files to ensure that each file contains identical citations of prior patents and printed publications, and will cite such documents as are necessary as part of the next action in order to place the files in that condition.

G. Appeal Procedure Reminders for *Inter Partes* Reexamination

The *inter partes* reexamination procedures for taking appeal, and for participating in the patent owner's appeal, are explained in MPEP §§ 2674 through 2675 and 2678 through 2683.

With respect to a patent owner's notice of appeal, the appeal must only be taken from the rejection(s) of the claims in the Right of Appeal Notice (RAN) that the *patent owner* proposes to contest, and must identify each claim rejected by examiner that the patent owner intends to contest.

With respect to a third party requester's notice of appeal, the appeal must only be taken from the finding(s) of patentability of claims in the RAN that the *third party requester* proposes to

contest. As set forth in MPEP § 2674, the third party requester must identify in the notice of appeal each rejection *that was previously proposed by third party requester* that the third party requester intends to contest and each rejection made and later withdrawn by the examiner that the third party requester intends to contest. It is not sufficient to merely appeal from the allowance of a claim (i.e., the examiner's finding of a claim patentable); the third party requester must identify each previously proposed rejection to be contested.

No new ground of rejection can be proposed by a third party requester appellant, unless such ground was withdrawn by the examiner during the prosecution of the proceeding, and the third party requester has not yet had an opportunity to propose it as a third party requester proposed ground of rejection. See 37 CFR 41.67(c)(1)(vi) as to the proposed rejections that a requester can challenge in the appellant brief.

CONCLUSION

1. *Ex parte* Reexamination Control No. 90/011,011 and *inter partes* Reexamination Control No. 95/001,621 are **merged into a single proceeding**, to be conducted in accordance with the procedure set forth above in Part III of this decision.
2. The examiner should not issue any further Office action for the present merged proceeding until after the earlier of: (a) the submission of the required response to the concurrently mailed Office action (see II above) to place the same amendment in all proceedings and requesters' comments on that response, or (b) the expiration of the time for filing the required response and any comments requesters elect to file.
3. Any questions concerning this communication should be directed to Joseph F. Weiss, Jr., Legal Advisor, at 571-272-7759.



Pinchus M. Laufer
Senior Legal Advisor
Office of Patent Legal Administration

February 17, 2012



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621 + 94011011	05/16/2011	7,241,034		1240

92045 7590 02/23/2012
The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER

TON, MY TRANG

ART UNIT	PAPER NUMBER
3992	

MAIL DATE	DELIVERY MODE
02/23/2012	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

KENYON & KENYON LLP

One Broadway

New York, N.Y. 10004

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621 + 90/011011

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

OFFICE ACTION IN INTER PARTES REEXAMINATION	Control No.	Patent Under Reexamination
	95/001,621	7,241,034
	Examiner	Art Unit
	MY-TRANG TON	3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

Responsive to the communication(s) filed by:
 Patent Owner on 02 February, 2012
 Third Party(ies) on 16 May, 2011

RESPONSE TIMES ARE SET TO EXPIRE AS FOLLOWS:

For Patent Owner's Response:

1 MONTH(S) from the mailing date of this action. 37 CFR 1.945. EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.956.

For Third Party Requester's Comments on the Patent Owner Response:

30 DAYS from the date of service of any patent owner's response. 37 CFR 1.947. NO EXTENSIONS OF TIME ARE PERMITTED. 35 U.S.C. 314(b)(2).

All correspondence relating to this inter partes reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

This action is not an Action Closing Prosecution under 37 CFR 1.949, nor is it a Right of Appeal Notice under 37 CFR 1.953.

PART I. THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892
2. Information Disclosure Citation, PTO/SB/08
3. _____

PART II. SUMMARY OF ACTION:

- 1a. Claims 1-41 are subject to reexamination.
- 1b. Claims _____ are not subject to reexamination.
2. Claims _____ have been canceled.
3. Claims _____ are confirmed. [Unamended patent claims]
4. Claims _____ are patentable. [Amended or new claims]
5. Claims 1-41 are rejected.
6. Claims _____ are objected to.
7. The drawings filed on _____ are acceptable are not acceptable.
8. The drawing correction request filed on _____ is: approved. disapproved.
9. Acknowledgment is made of the claim for priority under 35 U.S.C. 119 (a)-(d). The certified copy has:
 been received. not been received. been filed in Application/Control No 95001621.
10. Other _____

DETAILED OFFICE ACTION

This proceeding is a merger of 90/011,011 and 95/001,621.

I. MERGED REEXAMINATION PROCEEDINGS

Per the accompanying Decision *Sua Sponte* to Merge Reexamination Proceedings, Patent Owner is required to maintain the same claims (and specification) in both *ex parte* reexamination proceeding **90/011,011** ("the '11,011 proceeding") and *inter partes* reexamination proceeding **95/001,621** ("the '1621 proceeding").

II. STATUS OF CLAIMS

1. The '11,011 proceeding:

The status of the claims with respect to the '11,011 proceeding is as follows: The amendment filed 2/2/2012 has been entered. Claims 1-41 were maintained; claim 1-5 were amended; and claims 6-41 were newly added. Claims 1-41 are therefore pending.

2. The '1621 proceeding:

The status of the claims with respect to the '1621 proceeding is as follows: Per the Order Granting Request, mailed on 6/23/2011, claims 1-5 will be reexamined. Claims 1-5 are therefore pending.

3. The Merged Reexamination Proceedings:

As set forth above, **Patent Owner is required to maintain identical amendments in the merged reexamination files for a Merged Reexamination Proceeding.** This requirement has not been satisfied.

III. RELEVANT STATUTES - CLAIM REJECTIONS

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite because it is unclear which version of these claims is pending in the merged proceeding.

The version of claims in the '11,011 proceeding contains an amendment of claims 1-5 and the addition of claims 6-41, whereas the version of claims in the '1621 proceeding contains only the original claims 1-5. Patent Owner is required to maintain identical amendments in the merged reexamination files for purposes of the merged proceeding. Thus, the status of claims with respect to the Merged Reexamination Proceedings is unclear.

Art Unit: 3992

Patent owner is required to file an amendment putting the same claims in both proceedings to overcome the rejection discussed above.

Patent owner is given **one month** to provide the required amendment in accordance with the procedures in MPEP 2250. Within **30 days** from the date of service of the patent owner's response, the '1,621 inter partes requester may once file written comments in accordance with 37 CFR 1.947. The '1621 requester's comments may include proposed rejections for any claims amended with respect to the claims currently of record in the '1621 proceeding. Once the parties have filed responses or the time period for filing such responses has expired, the examiner will issue an Office action on the merits.

IV. EXTENSIONS OF TIME

Extensions of time under 37 CFR 1.136(a) will **not** be permitted in these proceedings because the provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Additionally, 35 U.S.C. 314(c) requires that *inter partes* reexamination proceedings "will be conducted with special dispatch" (37 CFR 1.937). Patent owner extensions of time in *inter partes* reexamination proceedings are provided for in 37 CFR 1.956. Extensions of time are not available for third party requester comments, because a comment period of 30 days from service of patent owner's response is set by statute. 35 USC 314(b)(3).

Art Unit: 3992

V. SERVICE OF PAPERS

Any paper filed by either the patent owner or the third party requester must be served on the other party in the reexamination proceeding in the manner provided by 37 CFR 1.248. See 37 CFR 1.903 and MPEP 2666.06.

VI. CORRESPONDENCE AND INQUIRY AS TO OFFICE ACTIONS

All correspondence related to this inter partes reexamination proceeding should be directed as follows:

By EFS: Registered users may submit via the electronic filing system EFS-Web, at <https://efs.uspto.gov/efile/myportal/efs-registered>

By Mail to: Mail Stop *Inter Partes* Reexam
Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

/My-Trang Nu Ton/
Primary Examiner
CRU - Art Unit 3992

Conferees:
/Margaret Rubin/
Primary Examiner CRU 3992



MARK J. REINHART
CRU SPE-AU 3992

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
7,241,034	) Art Unit: 3992
)
Applications No. 95/001,621 & 90/011,011	) Examiner: MY-TRANG N. TON
)
Filed: 05/16/2011	) Atty. Docket No.:
	) SVIPGP109RE
For: AUTOMATIC DIRECTIONAL CONTROL))
SYSTEM FOR VEHICLE	) Date: 03/23/2012
HEADLIGHTS)
_____)

AMENDMENT D

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Examiner:

In response to the Office Action mailed 2/23/2012, the notice of Merger of Proceedings mailed 2/23/2012, the Office Action mailed 1/12/2011 (“Office Action”), and as a substitute for the Responses filed 1/18/2011, 2/16/2011, and 02/02/2012 in the 90/011,011 proceeding, please enter the following amendments believed to place the Claims in condition for allowance.

AMENDMENTS TO THE CLAIMS

Amended claims follow:

1. (Currently Amended) An automatic directional control system for a vehicle headlight, comprising:

[[a]]two or more sensors that [[is]]are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of [[the]]a vehicle, said sensed conditions including at least[[es]] ~~one or more of road speed, steering angle[[,]] and pitch, and suspension height~~ of the vehicle;

a controller that is responsive to said two or more sensor signals for generating [[an]]at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent [[said]]at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed ~~operating~~ conditions; and

[[an]]said two or more actuators [[that is]]each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal.

2. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generate[[s]] a signal that is representative of the road speed of the vehicle.

3. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of [[the]]a rate of change of steering angle of the vehicle.

4. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of [[the]]a rate of change of pitch of the vehicle.

5. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of the suspension height of the vehicle.

6. (New) The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor and a second sensor.

7. (New) The automatic directional control system defined in claim 6, wherein said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle.

8. (New) The automatic directional control system defined in claim 6, wherein said first sensor is physically separate from said second sensor.

9. (New) The automatic directional control system defined in claim 1, further comprising one or more additional sensors for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

10. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of road speed of the vehicle.

11. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of steering angle of the vehicle.

12. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of pitch of the vehicle.

13. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of a suspension height of the vehicle.

14. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator connected to the headlight to effect movement thereof in a first direction and a second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.

15. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include the first actuator that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

16. (New) The automatic directional control system defined in claim 15, wherein the two or more actuators include a second actuator that is adapted to be connected to the headlight to effect movement thereof in a horizontal direction.

17. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include an electronically controlled mechanical actuator.

18. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a step motor.

19. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a servo motor.

20. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a microstepping motor capable of being operated in fractional step increments.

21. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the headlight is adjustably mounted on the vehicle such that a directional orientation at which a beam of light projects therefrom is capable of being adjusted both up and down relative to a horizontal reference position and left and right relative to a vertical reference position.

22. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that, while in a calibration mode, a directional orientation at which a beam of light projects therefrom is capable of being adjusted relative to the vehicle by manual operation of the two or more actuators.

23. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a microprocessor.

24. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller.

25. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes at least one position feedback sensor capable of providing a position feedback signal associated with at least one of the two or more actuators.

26. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes a Hall Effect sensor.

27. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes an optical interrupter.

28. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes memory.

29. (New) The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory.

30. (New) The automatic directional control system defined in claim 28, wherein the memory is configured to store a predetermined reference position associated with the headlight.

31. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

32. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

33. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

34. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

35. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

36. (New) The automatic directional control system defined in claim 1, wherein said controller is configured to be responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated continuously in response to relatively small variations in the sensed conditions.

37. (New) The automatic directional control system defined in claim 1, wherein said controller is configured to be responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions.

38. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to said two or more sensor signals to automatically activate one or more vehicle lights that are different than the headlight.

39. (New) The automatic directional control system defined in claim 38, wherein said one or more vehicle lights that are different than the headlight include one or more lights for illuminating a road in front of the vehicle during a turn.

40. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight.

41. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight to extend an angular range of a road surface.

REMARKS

As noted in the 6/23/2011 Office Communication for the Inter Partes Reexamination Proceeding number 95/001,621, which has now been merged with the current matter, Examiner has agreed with the Requestor that Requestor's issues 1-2, 4-7, 9-12, 14-17 and 19-20 raise substantial new questions of patentability as to claims 1-5 of the '034 patent.

Specifically, the Examiner agrees that:

Claims 1, 2, 4, and 5 are anticipated by Uchida (United Kingdom Patent Application Publication No. 2309773) under 35 U.S.C. §102(b);

Claims 1, 2, 4, and 5 are anticipated by Takahashi (United Kingdom Patent Application Publication No. 2309774) under 35 U.S.C. §102(b);

Claims 1 and 5 are anticipated by Miskin et al. (German Patent Application Publication No. 3110094) under 35 U.S.C. §102(b);

Claims 1 and 5 are anticipated by Leleve (German Patent Application Publication No. 3129891) under 35 U.S.C. §102(b);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. (U.S. Patent No. 6,305,823) and Uchida under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Miskin et al. under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Leleve under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. (U.S. Patent No.6,193,398) and Uchida under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Miskin et al. under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Leleve under 35 U.S.C. § 103(a);

Claims 1 to 5 are unpatentable over the combination of Gotoh (U.S. Patent No. 5,909,949) and Uchida under 35 U.S.C. § 103(a);

Claims 1 to 5 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 3, and 5 are unpatentable over the combination of Gotoh and Miskin et al. under 35 U.S.C. § 103(a); and

Claims 1 to 5 are unpatentable over the combination of Gotoh and Leleve under 35 U.S.C. § 103(a).

Applicant has amended Claim 1 to overcome such rejections, as follows:

1. (Currently Amended) An automatic directional control system for a vehicle headlight, comprising:

[[a]]two or more sensors that ~~[[is]]~~are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of ~~[[the]]~~a vehicle, said sensed conditions including at least~~[[es]]~~ ~~one or more of road speed, steering angle~~~~[[,]]~~ and pitch,~~and suspension height~~ of the vehicle; a controller that is responsive to said two or more sensor signals for generating ~~[[an]]~~at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent ~~[[said]]~~at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed ~~operating~~ conditions; and

~~[[an]]~~said two or more actuators ~~[[that is]]~~each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal.

Applicant respectfully asserts that the references as relied on by the Examiner fail to teach “two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed

conditions including at least **steering angle and pitch of the vehicle**” (emphasis added), as claimed by Applicant. Further, applicant respectfully asserts that the references as relied on by the Examiner fail to teach “**two or more actuators** each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal” (emphasis added), as claimed by Applicant.

Applicant respectfully notes that a claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described in a single prior art reference. *Verdegaal Bros. v. Union Oil Co. Of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). Moreover, the identical invention must be shown in as complete detail as contained in the claim. *Richardson v. Suzuki Motor Co.* 868 F.2d 1226, 1236, 9USPQ2d 1913, 1920 (Fed. Cir. 1989). Additionally, the elements must be arranged as required by the claim.

This criterion has simply not been met by the above reference, as noted above.

Further, to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant’s disclosure. *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed.Cir.1991).

Applicant respectfully asserts that at least the first and third elements of the *prima facie* case of obviousness have not been met, since it would be *unobvious* to combine the references, and the prior art references, as relied upon by the Examiner, fail to teach or suggest all of the claim limitations.

Finally, Applicant brings to the Examiner's attention the subject matter of new Claims 6-41, which Applicant adds for full consideration. Claims 6-41 depend from and further limit Claim 1. Accordingly, Applicant respectfully submits that new Claims 6-41 are allowable for at least the same reasons that Claim 1 is in condition for allowance, as described above. Support for the amendments to Claim 1, as well as for the newly added dependent claims may be found (by way of example), in Table 1.

Table 1

<p>Claim 1 – e.g., see Abstract; Col. 2, lines 7-17; and Figure 1.</p> <p>Claim 2 – e.g., see Col. 2, line 10.</p> <p>Claim 3 – e.g., see Col. 2, lines 11-12.</p> <p>Claim 4 – e.g., see Col. 2, line 12.</p> <p>Claim 5 – e.g., see Col. 2, line 11.</p> <p>Claim 6 – e.g., see items 15 and 16 of Figure 1.</p> <p>Claim 7 - e.g., see Abstract; Col. 2, lines 7-17; Col. 3, line 58 - Col. 4, line 2; and Figure 1.</p> <p>Claim 8 – e.g., see items 15 and 16 of Figure 1.</p> <p>Claim 9 - e.g., see Col. 3, line 58 - Col. 4, line 2.</p> <p>Claim 10 - e.g., see Col. 3, line 58 - Col. 4, line 2.</p> <p>Claim 11 - e.g., see Col. 3, line 58 - Col. 4, line 2.</p> <p>Claim 12 - e.g., see Col. 3, line 58 - Col. 4, line 2.</p> <p>Claim 13 - e.g., see Col. 3, line 58 - Col. 4, line 2.</p> <p>Claim 14 - e.g., see Figure 1 and Col. 3, lines 26-29.</p> <p>Claim 15 - e.g., see Figure 1 and Col. 3, lines 26-29.</p> <p>Claim 16 - e.g., see Figure 1 and Col. 3, lines 26-29.</p> <p>Claim 17 - e.g., see Col. 3, lines 28-31.</p> <p>Claim 18 - e.g., see Col. 3, lines 28-31.</p> <p>Claim 19 - e.g., see Col. 3, lines 28-31.</p> <p>Claim 20 - e.g., see Col. 3, lines 31-37.</p> <p>Claim 21 - e.g., see Col. 3, lines 28-31.</p> <p>Claim 22 – e.g., see Figure 2, Col. 5, lines 25-29.</p>
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- Claim 23 – e.g., see Col. 3, lines 53-58.
- Claim 24 – e.g., see Col. 3, lines 53-58.
- Claim 25 – e.g., see Col. 4, lines 7-30.
- Claim 26 - e.g., see Col. 4, line 26.
- Claim 27 – e.g., see Col. 4, lines 35-36.
- Claim 28 – e.g., see Col. 8, lines 8-11.
- Claim 29 – e.g., see Col. 8, line 16.
- Claim 30 – e.g., see Col. 6, lines 18-21.
- Claim 31 – e.g., see Col. 7, lines 1-4.
- Claim 32 – e.g., see Col. 7, lines 1-4.
- Claim 33 – e.g., see Col. 9, lines 33-42.
- Claim 34 – e.g., see Col. 9, lines 33-42.
- Claim 35 – e.g., see Col 9, lines 46-56.
- Claim 36 – e.g., see Col 9, lines 22-27.
- Claim 37 – e.g., see Col 9, lines 22-27.
- Claim 38 – e.g., see Col 12, lines 27-39.
- Claim 39 – e.g., see Col 12, lines 27-39.
- Claim 40 – e.g., see Col 12, lines 27-39.
- Claim 41 – e.g., see Col 12, lines 27-39.

Of course, the above citations are merely examples of the above claim language and should not be construed as limiting in any manner.

Applicant respectfully requests a Notice of Allowance of Claims 1-41, or a proper prior art showing of all of Applicant's claim limitations, in combination with the remaining claim elements.

Applicant believes no fees are due. In the event any other fees are due, the Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-4964 (Order No. SVIPGP109RE).

Should the Examiner deem that any further amendment is desirable to place this application in condition for allowance, Applicant invites the Examiner to telephone the undersigned attorney at the number listed below.

Respectfully submitted,



Dated: 23 March 2012
The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (972) 243-4523
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

I hereby certify that a true and complete copy of the forgoing Amendment D has been served on Third Party Requestor by mailing said copy on 23 Mar 2012, via First Class Mail, postage prepaid to:

Kenyon & Kenyon, LLP
One Broadway
New York, NY 10004

Electronic Acknowledgement Receipt

EFS ID:	12385790
Application Number:	95001621
International Application Number:	
Confirmation Number:	1240
Title of Invention:	Automatic Directional Control System for Vehicle Headlights
First Named Inventor/Applicant Name:	7,241,034
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	23-MAR-2012
Filing Date:	16-MAY-2011
Time Stamp:	20:11:39
Application Type:	inter partes reexam

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	SVIPGP109RE_Amndt_D_vF_23-Mar-2012.pdf	73813 <small>590de5886a892744a0d31ddf727ab5b829249d6d</small>	no	14

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621 90/011011	05/16/2011	7,241,034		1240

92045 7590 03/29/2012

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 03/29/2012

Please find below and/or attached an Office communication concerning this application or proceeding.



DO NOT USE IN PALM PRINTER

THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS
KENYON & KENYON LLP
ONE BROADWAY
NEW YORK, NY 10004

Date: 3-29-12

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NO. : 95001621 ~ 90/011011
PATENT NO. : 7241034
TECHNOLOGY CENTER : 3999
ART UNIT : 3992

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above identified Reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the inter partes reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an ex parte reexamination has been merged with the inter partes reexamination, no responsive submission by any ex parte third party requester is permitted.

All correspondence relating to this inter partes reexamination proceeding should be directed to the Central Reexamination Unit at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

NOTICE RE DEFECTIVE PAPER IN INTER PARTES REEXAMINATION

Control No.	Patent Under Reexamination
95/001,621; 90/011,011	7,241,034
Examiner	Art Unit
MY-TRANG TON	3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

1. No proof of service is included with the paper filed by patent owner requester on 23 March, 2012. 37 CFR 1.248 and 1.903. Proof of service is required within a time period of 30-days or one month from the date of this letter, whichever is longer. Failure to serve the paper may result in the paper being refused consideration. If the failure to comply with this requirement results in a patent owner failure to file a timely and appropriate response to any Office action, the prosecution of the reexamination proceeding will be terminated under 37 CFR 1.957(b) or limited under 37 CFR 1.957(c) (as is appropriate for the case).
2. The paper filed on _____ by the patent owner requester is unsigned. A duplicate paper or ratification, properly signed, is required within a time period of 30-days or one month from the date of this letter, whichever is longer. Failure to comply with this requirement will result in the paper not being considered. If the failure to comply results in a patent owner failure to file a timely and appropriate response to any Office action, the prosecution of the reexamination proceeding will be terminated under 37 CFR 1.957(b) or limited under 37 CFR 1.957(c) (as is appropriate for the case).
3. The paper filed on _____ by the patent owner requester is signed by _____ who is not of record. A ratification or a new power of attorney with a ratification, or a duplicate paper signed by a person of record, is required within a time period of 30-days or one month from the date of this letter, whichever is longer. Failure to comply with this requirement will result in the paper not being considered. If the failure to comply results in a patent owner failure to file a timely and appropriate response to any Office action, the prosecution of the reexamination proceeding will be terminated under 37 CFR 1.957(b) or limited under 37 CFR 1.957(c) (as is appropriate for the case).
4. The amendment filed by patent owner on 23 March, 2012, does not comply with 37 CFR 1.530. Patent owner is given a time period of 30-days or one month from the date of this letter, whichever is longer, to correct this informality, or the prosecution of the reexamination proceeding will be terminated under 37 CFR 1.957(b) or limited under 37 CFR 1.957(c) (as is appropriate for the case). The amendment will not be entered, although the argument the rein will be considered as it applies to the proceeding without the amendment should the prosecution be limited under 37 CFR 1.957(c).
5. The amendment filed by patent owner on _____, does not comply with 37 CFR 1.20(c)(3) and/or 1.20(c)(4), as to excess claim fees. Patent owner is given a time period of 30-days or one month from the date of this letter, whichever is longer, to correct this fee deficiency, or the prosecution of the reexamination proceeding will be terminated under 37 CFR 1.957(b) or limited under 37 CFR 1.957(c) (as is appropriate for the case), to effect the "abandonment" set forth in 37 CFR 1.20(c)(5).
6. Other: _____

NOTE: PATENT OWNER EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.956. NO EXTENSION OF TIME IS PERMITTED FOR THIRD PARTY REQUESTER. 35 U.S.C. § 314(b)(2).

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

Defective Amendments

This proceeding is a merger of 90/011,011 and 95/001,621.

The amendment filed 3/23/2012 proposes amendments to the last Office action mailed out 2/23/2012 that do not comply with 37 CFR 1.530(d)-(j), which sets forth the manner of making amendments in reexamination proceedings. A supplemental paper correctly proposing amendments in the present reexamination proceeding is required.

1/ The amendment filed 3/23/2012 is improper because strikeout and double brackets used for deleted text. Each patent claim proposed to be changed and each proposed added claim must include markings pursuant to paragraph (f) as indicated below.

*37 CFR 1.530. Statement by patent owner in ex parte reexamination;
amendment by patent owner in ex parte or inter partes reexamination;
inventorship change in ex parte or inter partes reexamination.*

(f) Changes shown by markings. Any changes relative to the patent being reexamined which are made to the specification, including the claims, must include the following markings:

(1) The matter to be omitted by the reexamination proceeding must be enclosed in brackets;

and

(2) The matter to be added by the reexamination proceeding must be underlined.

Art Unit: 3992

(E)Canceled claim(s) or paragraph(s) which are part of the patent are surrounded by brackets (i.e., a bracket placed at the beginning and end of each canceled claim or paragraph of the patent). They are not lined through;

2/ The indication for the certificate of service at the end of the remarks (page 14) filed on 3/23/2012 is not adequate. 37 CFR 1.248. Rule 1.248 part (b) requires that a statement signed by the agent or attorney including the date and manner of service. The Patent Owner provides the date and manner of service but it isn't signed. The signature provided above is for the remarks rather than below the indication for the certificate of service. After the filing of a request for reexamination by a third party requester, any document filed by either the patent owner or the third party requester must be served on the other party (or parties where two or more third party requester proceedings are merged) in the reexamination proceeding in the manner provided in 37 CFR 1.248.

37 CFR 1.903. Service of papers on parties in inter partes reexamination.

The patent owner and the third party requester will be sent copies of Office actions issued during the inter partes reexamination proceeding. After filing of a request for inter partes reexamination by a third party requester, any document filed by either the patent owner or the third party requester must be served on every other party in the reexamination proceeding in the manner provided in § 1.248. Any document must reflect service or the document may be refused consideration by the Office. The failure

of the patent owner or the third party requester to serve documents may result in their being refused consideration.

(b) Papers filed in the Patent and Trademark Office which are required to be served shall contain proof of service. Proof of service may appear on or be affixed to papers filed. Proof of service shall include the date and manner of service. In the case of personal service, proof of service shall also include the name of any person served, certified by the person who made service. Proof of service may be made by:

- (1) An acknowledgement of service by or on behalf of the person served or
- (2) A statement signed by the attorney or agent containing the information required by this section.

A shortened statutory period for response to this letter is set to expire ONE MONTH or THIRTY DAYS, whichever is longer, from the mailing date of this letter. If patent owner fails to timely correct this informality, the amendment will be held not to be an appropriate response, prosecution of the present reexamination proceeding will be terminated, and a reexamination certificate will issue. 37 CFR 1.550(d).

Therefore, the amendment filed 3/23/2012 will not be entered.

Art Unit: 3992

All correspondence relating to this inter partes reexamination proceeding should be directed:

By Mail to:

Mail Stop InterPartes Reexam
Attn: Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to:

(571) 273-9900
Central Reexamination Unit

By hand:

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS- Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning." processing complete.

Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272- 7705.

/My-Trang N. Ton/
Primary Examiner, CRU 3992

Conferees:
/Margaret Rubin/
Primary Examiner CRU 3992


ANDREW J. FISCHER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER ~~3600~~
3900

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
7,241,034	) Art Unit: 3992
)
Applications No. 95/001,621 & 90/011,011	) Examiner: MY-TRANG N. TON
)
Filed: 05/16/2011	) Atty. Docket No.:
	) SVIPGP109RE
For: AUTOMATIC DIRECTIONAL CONTROL))
SYSTEM FOR VEHICLE	) Date: 04/27/2012
HEADLIGHTS)
_____)

AMENDMENT D2

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Examiner:

In response to the Office Action mailed 2/23/2012, the notice of Merger of Proceedings mailed 2/23/2012, the Office Action mailed 1/12/2011 (“Office Action”), and as a substitute for the Responses filed 1/18/2011, 2/16/2011, and 02/02/2012 in the 90/011,011 proceeding, and further in response to the Notice of Defective Paper mailed 03/29/2012, please enter the following amendments believed to place the Claims in condition for allowance.

AMENDMENTS TO THE CLAIMS

Amended claims follow:

1. (Currently Amended) An automatic directional control system for a vehicle headlight, comprising:

[a]two or more sensors that [is]are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of [the]a vehicle, said sensed conditions including at least[es one or more of road speed,]steering angle[,] and pitch[, and suspension height]of the vehicle; a controller that is responsive to said two or more sensor signals for generating [an]at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent [said]at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed [operating]conditions; and

[an]said two or more actuators [that is]each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal.

2. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generate[s] a signal that is representative of the road speed of the vehicle.

3. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of [the]a rate of change of steering angle of the vehicle.

4. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of [the]a rate of change of pitch of the vehicle.

5. (Currently Amended) The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors further generates a signal that is representative of the suspension height of the vehicle.

6. (New) The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor and a second sensor.

7. (New) The automatic directional control system defined in claim 6, wherein said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle.

8. (New) The automatic directional control system defined in claim 6, wherein said first sensor is physically separate from said second sensor.

9. (New) The automatic directional control system defined in claim 1, further comprising one or more additional sensors for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

10. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of road speed of the vehicle.

11. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of steering angle of the vehicle.

12. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of pitch of the vehicle.

13. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of a suspension height of the vehicle.

14. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator connected to the headlight to effect movement thereof in a first direction and a second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.

15. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include the first actuator that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

16. (New) The automatic directional control system defined in claim 15, wherein the two or more actuators include a second actuator that is adapted to be connected to the headlight to effect movement thereof in a horizontal direction.

17. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include an electronically controlled mechanical actuator.

18. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a step motor.

19. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a servo motor.

20. (New) The automatic directional control system defined in claim 1, wherein the two or more actuators include a microstepping motor capable of being operated in fractional step increments.

21. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the headlight is adjustably mounted on the vehicle such that a directional orientation at which a beam of light projects therefrom is capable of being adjusted both up and down relative to a horizontal reference position and left and right relative to a vertical reference position.

22. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that, while in a calibration mode, a directional orientation at which a beam of light projects therefrom is capable of being adjusted relative to the vehicle by manual operation of the two or more actuators.

23. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a microprocessor.

24. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller.

25. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes at least one position feedback sensor capable of providing a position feedback signal associated with at least one of the two or more actuators.

26. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes a Hall Effect sensor.

27. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes an optical interrupter.

28. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes memory.

29. (New) The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory.

30. (New) The automatic directional control system defined in claim 28, wherein the memory is configured to store a predetermined reference position associated with the headlight.

31. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

32. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

33. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

34. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

35. (New) The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

36. (New) The automatic directional control system defined in claim 1, wherein said controller is configured to be responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated continuously in response to relatively small variations in the sensed conditions.

37. (New) The automatic directional control system defined in claim 1, wherein said controller is configured to be responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions.

38. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to said two or more sensor signals to automatically activate one or more vehicle lights that are different than the headlight.

39. (New) The automatic directional control system defined in claim 38, wherein said one or more vehicle lights that are different than the headlight include one or more lights for illuminating a road in front of the vehicle during a turn.

40. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight.

41. (New) The automatic directional control system defined in claim 1, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight to extend an angular range of a road surface.

REMARKS

As noted in the 6/23/2011 Office Communication for the Inter Partes Reexamination Proceeding number 95/001,621, which has now been merged with the current matter, Examiner has agreed with the Requestor that Requestor's issues 1-2, 4-7, 9-12, 14-17 and 19-20 raise substantial new questions of patentability as to claims 1-5 of the '034 patent.

Specifically, the Examiner agrees that:

Claims 1, 2, 4, and 5 are anticipated by Uchida (United Kingdom Patent Application Publication No. 2309773) under 35 U.S.C. §102(b);

Claims 1, 2, 4, and 5 are anticipated by Takahashi (United Kingdom Patent Application Publication No. 2309774) under 35 U.S.C. §102(b);

Claims 1 and 5 are anticipated by Miskin et al. (German Patent Application Publication No. 3110094) under 35 U.S.C. §102(b);

Claims 1 and 5 are anticipated by Leleve (German Patent Application Publication No. 3129891) under 35 U.S.C. §102(b);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. (U.S. Patent No. 6,305,823) and Uchida under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Miskin et al. under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Leleve under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. (U.S. Patent No.6,193,398) and Uchida under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Misikin et al. under 35 U.S.C. § 103(a);

Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Leleve under 35 U.S.C. § 103(a);

Claims 1 to 5 are unpatentable over the combination of Gotoh (U.S. Patent No. 5,909,949) and Uchida under 35 U.S.C. § 103(a);

Claims 1 to 5 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a);

Claims 1, 2, 3, and 5 are unpatentable over the combination of Gotoh and Misikin et al. under 35 U.S.C. § 103(a); and

Claims 1 to 5 are unpatentable over the combination of Gotoh and Leleve under 35 U.S.C. § 103(a).

Applicant has amended Claim 1 to overcome such rejections, as follows:

1. (Currently Amended) An automatic directional control system for a vehicle headlight, comprising:

[a]two or more sensors that [is]are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of [the]a vehicle, said sensed conditions including at least[es one or more of road speed,]steering angle[,] and pitch[,] and suspension height]of the vehicle;
a controller that is responsive to said two or more sensor signals for generating [an]at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent [said]at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed [operating]conditions;
and

[an]said two or more actuators [that is]each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal.

Applicant respectfully asserts that the references as relied on by the Examiner fail to teach “two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle” (emphasis added),

as claimed by Applicant. Further, applicant respectfully asserts that the references as relied on by the Examiner fail to teach “**two or more actuators** each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal” (emphasis added), as claimed by Applicant.

Applicant respectfully notes that a claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described in a single prior art reference. *Verdegaal Bros. v. Union Oil Co. Of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). Moreover, the identical invention must be shown in as complete detail as contained in the claim. *Richardson v. Suzuki Motor Co.* 868 F.2d 1226, 1236, 9USPQ2d 1913, 1920 (Fed. Cir. 1989). Additionally, the elements must be arranged as required by the claim.

This criterion has simply not been met by the above reference, as noted above.

Further, to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant’s disclosure. *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed.Cir.1991).

Applicant respectfully asserts that at least the first and third elements of the *prima facie* case of obviousness have not been met, since it would be *unobvious* to combine the references, and the prior art references, as relied upon by the Examiner, fail to teach or suggest all of the claim limitations.

Finally, Applicant brings to the Examiner's attention the subject matter of new Claims 6-41, which Applicant adds for full consideration. Claims 6-41 depend from and further limit Claim 1. Accordingly, Applicant respectfully submits that new Claims 6-41 are allowable for at least the same reasons that Claim 1 is in condition for allowance, as described above. Support for the amendments to Claim 1, as well as for the newly added dependent claims may be found (by way of example), in Table 1.

Table 1

Claim 1 – e.g., see Abstract; Col. 2, lines 7-17; and Figure 1.
Claim 2 – e.g., see Col. 2, line 10.
Claim 3 – e.g., see Col. 2, lines 11-12.
Claim 4 – e.g., see Col. 2, line 12.
Claim 5 – e.g., see Col. 2, line 11.
Claim 6 – e.g., see items 15 and 16 of Figure 1.
Claim 7 - e.g., see Abstract; Col. 2, lines 7-17; Col. 3, line 58 - Col. 4, line 2; and Figure 1.
Claim 8 – e.g., see items 15 and 16 of Figure 1.
Claim 9 - e.g., see Col. 3, line 58 - Col. 4, line 2.
Claim 10 - e.g., see Col. 3, line 58 - Col. 4, line 2.
Claim 11 - e.g., see Col. 3, line 58 - Col. 4, line 2.
Claim 12 - e.g., see Col. 3, line 58 - Col. 4, line 2.
Claim 13 - e.g., see Col. 3, line 58 - Col. 4, line 2.
Claim 14 - e.g., see Figure 1 and Col. 3, lines 26-29.
Claim 15 - e.g., see Figure 1 and Col. 3, lines 26-29.
Claim 16 - e.g., see Figure 1 and Col. 3, lines 26-29.
Claim 17 - e.g., see Col. 3, lines 28-31.
Claim 18 - e.g., see Col. 3, lines 28-31.
Claim 19 - e.g., see Col. 3, lines 28-31.
Claim 20 - e.g., see Col. 3, lines 31-37.
Claim 21 - e.g., see Col. 3, lines 28-31.
Claim 22 – e.g., see Figure 2, Col. 5, lines 25-29.

Claim 23 – e.g., see Col. 3, lines 53-58.

Claim 24 – e.g., see Col. 3, lines 53-58.

Claim 25 – e.g., see Col. 4, lines 7-30.

Claim 26 – e.g., see Col. 4, line 26.

Claim 27 – e.g., see Col. 4, lines 35-36.

Claim 28 – e.g., see Col. 8, lines 8-11.

Claim 29 – e.g., see Col. 8, line 16.

Claim 30 – e.g., see Col. 6, lines 18-21.

Claim 31 – e.g., see Col. 7, lines 1-4.

Claim 32 – e.g., see Col. 7, lines 1-4.

Claim 33 – e.g., see Col. 9, lines 33-42.

Claim 34 – e.g., see Col. 9, lines 33-42.

Claim 35 – e.g., see Col 9, lines 46-56.

Claim 36 – e.g., see Col 9, lines 22-27.

Claim 37 – e.g., see Col 9, lines 22-27.

Claim 38 – e.g., see Col 12, lines 27-39.

Claim 39 – e.g., see Col 12, lines 27-39.

Claim 40 – e.g., see Col 12, lines 27-39.

Claim 41 – e.g., see Col 12, lines 27-39.

Of course, the above citations are merely examples of the above claim language and should not be construed as limiting in any manner.

Applicant respectfully requests a Notice of Allowance of Claims 1-41, or a proper prior art showing of all of Applicant's claim limitations, in combination with the remaining claim elements.

Applicant believes no fees are due. In the event any other fees are due, the Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-4964 (Order No. SVIPGP109RE).

Should the Examiner deem that any further amendment is desirable to place this application in condition for allowance, Applicant invites the Examiner to telephone the undersigned attorney at the number listed below.

Additionally, the undersigned hereby certifies that a true and complete copy of the forgoing Amendment D2 has been served on Third Party Requestor by mailing said copy on 27 Apr 2012 (and Amendment D, mailed 23 Mar 2012), via First Class Mail, postage prepaid to:

Kenyon & Kenyon, LLP
One Broadway
New York, NY 10004

Respectfully submitted,



Dated: 27 April 2012
The Caldwell Firm, LLC
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Patrick E. Caldwell, Esq.
Reg. No. 44,580

Electronic Acknowledgement Receipt

EFS ID:	12654561
Application Number:	95001621
International Application Number:	
Confirmation Number:	1240
Title of Invention:	Automatic Directional Control System for Vehicle Headlights
First Named Inventor/Applicant Name:	7,241,034
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP109RE
Receipt Date:	27-APR-2012
Filing Date:	16-MAY-2011
Time Stamp:	19:13:55
Application Type:	inter partes reexam

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	SVIPGP109RE_Amndt_D2_vF_04-27-2012.pdf	73821 <small>1dc6cb784822fca0d5dfa9e88bbd5178dd513561</small>	no	14

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Litigation Search Report CRU 3999

Reexam Control No. 90/011,011

TO: My Trang Ton
Location: CRU
Art Unit: 3992
Date: 5/21/2012
Merged: 95/001,621

From: Patricia Volpe
Location: CRU 3999
MDE 5D30
Phone: (571) 272-6825
Patricia.volpe@uspto.gov

Search Notes

Litigation search for U.S. Patent Number: **7,241,034**

Status (**CLOSED**) 6:10cv78 *Balther Technologies, Llc v. American Honda Motor Co Inc et A*

- 1) I performed a KeyCit Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
- 4) I performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

KEYCITE

C US PAT 7241034 AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS, Assignee: Dana Corporation (Jul 10, 2007)

History

Direct History

=> 1 **AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS, US PAT 7241034, 2007 WL 1978614 (U.S. PTO Utility Jul 10, 2007)**

Patent Family

2 **AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR A VEHICLE HEADLIGHT USES SENSOR TO GENERATE SIGNAL REPRESENTATIVE OF CONDITION OF VEHICLE, CONTROLLER RESPONSIVE TO SENSOR SIGNAL TO GENERATE OUTPUT SIGNAL AND ACTUATOR TO EFFECT HEADLIGHT MOVEMENT, Derwent World Patents Legal 2003-543647**

Assignments

- 3 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 002, (DATE RECORDED: Mar 08, 2010)
- 4 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 002, (DATE RECORDED: Jun 12, 2009)
- 5 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 030, (DATE RECORDED: Feb 22, 2008)
- 6 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 003, (DATE RECORDED: Feb 06, 2003)

Patent Status Files

- .. Request for Re-Examination, (OG DATE: Jun 29, 2011)
- .. Request for Re-Examination, (OG DATE: Sep 07, 2010)
- .. Patent Suit(See LitAlert Entries),

Docket Summaries

10 **BALTHER TECHNOLOGIES, LLC v. AMERICAN HONDA MOTOR CO. INC. ET AL, (E.D.TEX. Mar 08, 2010) (NO. 6:10CV00078), (35 USC 271 PATENT INFRINGEMENT)**

Litigation Alert

11 Derwent LitAlert P2010-11-45 (Mar 08, 2010) Action Taken: complaint

Prior Art (Coverage Begins 1976)

- C** 12 ADJUSTABLE HEADLIGHTS, HEADLIGHT ADJUSTING AND DIRECTION SENSING CONTROL SYSTEM AND METHOD OF ADJUSTING HEADLIGHTS, US PAT 5868488 (U.S. PTO Utility 1999)
- C** 13 APPARATUS AND METHOD FOR CONTROLLING LIGHT DISTRIBUTION OF HEADLAMP, US PAT 5660454 Assignee: Toyota Jidosha Kabushiki Kaisha, (U.S. PTO Utility 1997)
- C** 14 APPARATUS AND METHOD FOR CONTROLLING THE LIGHT-RANGE OF MOTOR VEHICLE HEADLIGHTS, US PAT 5193894 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1993)
- C** 15 APPARATUS FOR AUTOMATICALLY ADJUSTING AIMING OF HEADLIGHTS OF AN AUTOMOTIVE VEHICLE, US PAT 5877680 Assignee: Denso Corporation; Toyota Jidosha Kabushiki Kaisha, (U.S. PTO Utility 1999)
- C** 16 APPARATUS FOR CONTROLLING A HEADLIGHT OF A VEHICLE, US PAT 4891559 Assignee: Nippondenso Soken, Inc.; Nippondenso Co., Ltd., (U.S. PTO Utility 1990)
- C** 17 APPARATUS FOR REGULATING THE ILLUMINATION FIELD OF A VEHICLE HEADLIGHT, US PAT 6144159 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2000)
- C** 18 ARRANGEMENT FOR AUTOMATIC HEADLIGHT ADJUSTMENT, US PAT 6231216 Assignee: Dr. Ing. h.c.F. Porsche AG, (U.S. PTO Utility 2001)
- C** 19 AUTOMATIC LEVELING APPARATUS FOR USE WITH AUTOMOBILE HEADLAMPS, US PAT 6183118 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 20 AUTOMATIC LEVELING DEVICE FOR AUTOMOTIVE VEHICLE HEADLAMPS, US PAT 6305823 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 21 AUTOMOTIVE ILLUMINATION SYSTEM, US PAT 4943893 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1990)
- C** 22 CONTINUOUSLY VARIABLE HEADLAMP CONTROL, US PAT 6281632 Assignee: Gentex Corporation, (U.S. PTO Utility 2001)
- C** 23 CORNERING LIGHT SYSTEM FOR TWO-WHEELED VEHICLES, US PAT 4024388 Assignee: Marvin H. Kleinberg, Inc.; Richard Morganstern Inc.; Scholnick, Seymour A., (U.S. PTO Utility 1977)
- C** 24 DEVICE FOR ADJUSTING THE INCLINATION OF AUTOMOBILE HEADLIGHTS, US PAT 4186428 Assignee: Cibie Projecteurs, (U.S. PTO Utility 1980)
- C** 25 DEVICE FOR ADJUSTING THE LEVEL OF A VEHICLE HEADLIGHT, US PAT 5779342 Assignee: Bayerische Motoren Werke Aktiengesellschaft, (U.S. PTO Utility 1998)
- C** 26 DEVICE FOR ADJUSTING AN OBJECT TO ASSUME A PREDETERMINED ANGLE TO A CERTAIN PLANE, US PAT 4217631 (U.S. PTO Utility 1980)
- C** 27 DEVICE FOR ADJUSTING A PRESETTABLE LIGHTING LEVEL OF A HEADLIGHT IN MOTOR VEHICLES, US PAT 5785405 Assignee: Bayerische Motoren Werke, (U.S. PTO Utility 1998)
- C** 28 DEVICE FOR CONTROLLING THE LIGHT WIDTH OF HEADLIGHTS FOR VEHICLES, US

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- PAT 5896011 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1999)
- C 29 DEVICE FOR REGULATING LIGHT WIDTH OF HEADLIGHTS FOR VEHICLES, AND VEHICLE PROVIDED THEREWITH, US PAT 6142655 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2000)
- C 30 DIRECTION TURNING DEVICE FOR A HEADLIGHT OF AN AUTOMOBILE, US PAT 5550717 (U.S. PTO Utility 1996)
- C 31 FOCUSING MIRROR CONTROL SYSTEM AND METHOD FOR ADJUSTING SAME, US PAT 6118113 (U.S. PTO Utility 2000)
- C 32 HEAD LAMP DEVICE FOR VEHICLE, US PAT 6010237 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 2000)
- C 33 HEAD LAMP DEVICE FOR VEHICLE, US PAT 5909949 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1999)
- C 34 HEADLAMP, US PAT 5158352 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1992)
- C 35 HEADLAMP DRIVE AND CONTROL APPARATUS, US PAT 4583152 Assignee: Aisin Seiki Kabushiki Kaisha, (U.S. PTO Utility 1986)
- C 36 HEADLAMP FOR MOTOR VEHICLES WITH PROGRAMMABLE LIGHT DISTRIBUTION, US PAT 4868721 (U.S. PTO Utility 1989)
- C 37 HEADLAMP POSITIONING DEVICE, US PAT 5181429 Assignee: Saia AG, (U.S. PTO Utility 1993)
- C 38 HEADLIGHT AIMING AND LIGHT PATTERN TESTING APPARATUS AND METHOD, US PAT 4948249 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1990)
- C 39 HEADLIGHT AIMING APPARATUS, US PAT 5751832 Assignee: Progressive Tool & Industries Co.; Panter Master Controls, Inc., (U.S. PTO Utility 1998)
- C 40 HEADLIGHT AIMING APPARATUS AND DISPLAY, US PAT 5164785 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1992)
- C 41 HEADLIGHT AIMING METHOD USING PATTERN FRAMING, US PAT 5373357 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C 42 HEADLIGHT ARRANGEMENT FOR MOTOR VEHICLE, US PAT 6227691 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2001)
- C 43 HEADLIGHT ARRANGEMENT FOR VEHICLES, US PAT 4768135 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1988)
- C 44 HEADLIGHT BEAM CONTROL SYSTEM FOR MOTOR VEHICLES, US PAT 4225902 (U.S. PTO Utility 1980)
- C 45 HEADLIGHT CONTROL APPARATUS FOR MOTORCYCLES, US PAT 4870545 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1989)
- C 46 HEADLIGHT FOR VEHICLE, US PAT 4833573 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C 47 HEADLIGHT MOVING APPARATUS FOR A MOTOR VEHICLE, US PAT 5099400 (U.S. PTO Utility 1992)
- C 48 HEIGHT SENSOR AND VEHICULAR HEADLIGHT BEAM AXIS LEVELING APPARATUS,

- US PAT 6234654 Assignee: Denso Corporation, (U.S. PTO Utility 2001)
- C 49 INFINITELY ADJUSTABLE LEVEL LIGHT, US PAT 3953726 (U.S. PTO Utility 1976)
- C 50 IRRADIATION DIRECTION CONTROL APPARATUS FOR VEHICULAR LAMP, US PAT 5907196 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1999)
- C 51 LIGHT DESTRIIBUTION OF HEADLIGHT BEAM, US PAT 4907877 (U.S. PTO Utility 1990)
- C 52 LIGHT MANAGEMENT SYSTEM FOR A VEHICLE, US PAT 5781105 Assignee: Ford Motor Company, (U.S. PTO Utility 1998)
- C 53 LIGHTING CONTROL FOR MOTOR VEHICLE LAMPS, US PAT 3634677 Assignee: ROBERT BOSCH GMBH, (U.S. PTO Utility 1972)
- C 54 LIGHTING DEVICE FOR A VEHICLE, US PAT 6049749 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2000)
- C 55 LIGHTING DEVICE FOR VEHICLES, US PAT 6293686 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C 56 LIGHTING SYSTEM FOR A MOTORCYCLE, US PAT 3939339 (U.S. PTO Utility 1976)
- C 57 LOAD TRIM COMPENSATING VEHICLE HEADLIGHT DEFLECTION SYSTEM, US PAT 4162424 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1979)
- C 58 MAGNETIC COUPLING MECHANISM FOR USE IN AN AUTOMOTIVE VEHICLE, US PAT 5977678 Assignee: UT Automotive Dearborn, Inc., (U.S. PTO Utility 1999)
- C 59 METHOD AND APPARATUS FOR ADJUSTING THE ORIENTATION OF VEHICLE HEADLIGHTS, US PAT 4204270 Assignee: Societe pour l'Equipement de, (U.S. PTO Utility 1980)
- C 60 METHOD AND APPARATUS FOR LOCATING A SPECIFIC LOCATION ON A VEHICLE HEADLAMP, US PAT 5331393 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C 61 METHOD OF MEASURING AND ADJUSTING OPTICAL AXIS OF HEADLIGHT, US PAT 5392111 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1995)
- C 62 MOTOR VEHICLE LIGHTING SYSTEM HAVING AT LEAST TWO BEND LIGHTING DRIVING LIGHTS, US PAT 6176590 Assignee: Valeo Vision, (U.S. PTO Utility 2001)
- C 63 MOTOR VEHICLE WITH HEADLAMP TILTING MECHANISM, US PAT 4066886 Assignee: The Lucas Electrical Company Limited, (U.S. PTO Utility 1978)
- C 64 MOTORCYCLE HEADLIGHT AIMING DEVICE, US PAT 5426571 (U.S. PTO Utility 1995)
- C 65 MULTIPLE SENSOR INCLINATION MEASURING SYSTEM, US PAT 4549277 Assignee: Brunson Instrument Company, (U.S. PTO Utility 1985)
- C 66 POSITION CONTROL SYSTEM, US PAT 4310172 Assignee: General Motors Corporation, (U.S. PTO Utility 1982)
- C 67 ROAD SURFACE-SENSITIVE BEAM PATTERN LEVELING SYSTEM FOR A VEHICLE HEADLAMP, US PAT 4868720 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C 68 SIDELIGHTING ARRANGEMENT AND METHOD, US PAT 5428512 (U.S. PTO Utility 1995)
- C 69 STEPPER MOTOR SHAFT POSITION SENSOR, US PAT 4791343 Assignee: Allied-Signal Inc., (U.S. PTO Utility 1988)

- C 70 SUPPORT FRAME FOR HEADLIGHT AIMING APPARATUS, US PAT 5920386 Assignee: Panter Master Controls, Inc.; Progressive Tool & Industries Co., (U.S. PTO Utility 1999)
- C 71 SWITCHING CONTROL SYSTEM FOR AUTOMATICALLY TURNING HEADLIGHTS OFF AND ON AT INTERSECTIONS, US PAT 6097156 (U.S. PTO Utility 2000)
- C 72 SYSTEM FOR AUTOMATICALLY ADJUSTING OPTICAL AXIS DIRECTION OF VEHICLE HEADLIGHT, US PAT 6193398 Assignee: DENSO Corporation, (U.S. PTO Utility 2001)
- C 73 SYSTEM FOR SELF-ALIGNING VEHICLE HEADLAMPS, US PAT 5633710 Assignee: EGS Inc., (U.S. PTO Utility 1997)
- C 74 TILTING DEVICE OF VEHICLE HEADLIGHT, US PAT 4916587 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1990)
- C 75 VARIABLE DISTRIBUTION TYPE AUTOMOTIVE HEADLAMP, US PAT 5060120 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1991)
- C 76 VEHICLE CORNERING LAMP SYSTEM, US PAT 5526242 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1996)
- C 77 VEHICLE CORNERING LAMP SYSTEM, US PAT 4908560 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1990)
- C 78 VEHICLE HEADLIGHT AIMING APPARATUS, US PAT 5485265 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1996)
- C 79 VEHICLE HEADLIGHT WITH ADJUSTING MEANS FOR DIFFERENT TRAFFIC CONDITIONS, US PAT 5938319 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1999)
- C 80 VEHICULAR CORNERING LAMP SYSTEM, US PAT 5404278 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1995)
- C 81 VEHICULAR HEADLAMP PRODUCING LOW BEAM HAVING CUT LINE CONTROLLED IN ACCORDANCE WITH CONDITION OF CURVED ROAD, US PAT 5707129 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1998)

US District Court Civil Docket

U.S. District - Texas Eastern
(Tyler)

6:10cv78

Balther Technologies, Llc v. American Honda Motor Co Inc et A

This case was retrieved from the court on Thursday, March 29, 2012

Date Filed: 03/08/2010	Class Code: CLOSED
Assigned To: Judge Leonard Davis	Closed: Yes
Referred To:	Statute: 35:271
Nature of suit: Patent (830)	Jury Demand: Plaintiff
Cause: Patent Infringement	Demand Amount: \$0
Lead Docket: None	NOS Description: Patent
Other Docket: None	
Jurisdiction: Federal Question	

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American Honda Motor Co Inc
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Honda Motor Company, Ltd
Defendant

Bmw of North America, Llc
Defendant

Bmw AG
Defendant

Chrysler Group Llc
Defendant

Ferrari North America, Inc
Defendant

Ferrari Spa
Defendant

General Motors, Llc
Defendant

Hyundai Motor America
Defendant

Hyundai Motor Company
Defendant

Jaguar Land Rover North America, Llc
Defendant

Jaguar Cars Limited
Defendant

Maserati North America Inc
Defendant

Maserati Spa
Defendant

Mercedes-Benz USA, Llc
Defendant

Daimler North America Corporation
Defendant

Daimler AG
Defendant

Mazda Motor of North America, Inc
Defendant

Mazda Motor Corp
Defendant

Mitsubishi Motors North America, Inc
Defendant

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Nissan North America, Inc
Defendant

Nissan Motor Co, Ltd
Defendant

Porsche Cars North America, Inc
Defendant

Dr Ing Hc.F Porsche AG
Defendant

Saab Cars North America, Inc
Defendant

Toyota Motor North America, Inc
Defendant

Toyota Motor Sales, USA, Inc

Defendant

Toyota Motor Corp
Defendant

Volkswagen Group of America, Inc
Defendant

Automobili Lamborghini Spa
Defendant

Audi AG
Defendant

Volkswagen AG
Defendant

Ford Motor Company
Defendant

Volvo Cars of North America, Llc
Defendant

Volvo Car Corp
Defendant

Date	#	Proceeding Text	Source
03/08/2010	1	COMPLAINT for Patent Infringement against all defendants (Filing fee \$ 350 receipt number 0540000000002387982.), filed by Balther Technologies, LLC. (Attachments: # 1 Exhibit A, # 2 Civil Cover Sheet)(Albritton, Eric) (Entered: 03/08/2010)	
03/08/2010	--	Judge Leonard Davis added. (mll,) (Entered: 03/08/2010)	
03/08/2010	2	Notice of Filing of Patent/Trademark Form (AO 120). AO 120 mailed to the Director of the U.S. Patent and Trademark Office. (Albritton, Eric) (Entered: 03/08/2010)	
03/09/2010	3	NOTICE of Attorney Appearance by Thomas John Ward, Jr on behalf of Balther Technologies, LLC (Ward, Thomas) (Entered: 03/09/2010)	
03/09/2010	4	NOTICE of Attorney Appearance by Jack Wesley Hill on behalf of Balther Technologies, LLC (Hill, Jack) (Entered: 03/09/2010)	
03/09/2010	5	NOTICE of Attorney Appearance by Adam A Biggs on behalf of Balther Technologies, LLC (Biggs, Adam) (Entered: 03/09/2010)	
03/09/2010	6	NOTICE of Attorney Appearance by Debra Rochelle Coleman on behalf of Balther Technologies, LLC (Coleman, Debra) (Entered: 03/09/2010)	
03/09/2010	7	NOTICE of Attorney Appearance by Matthew Clay Harris on behalf of Balther Technologies, LLC (Harris, Matthew) (Entered: 03/09/2010)	
03/10/2010	8	NOTICE of Attorney Appearance by J Mike Amerson on behalf of Balther Technologies, LLC (Amerson, J) (Entered: 03/10/2010)	
03/10/2010	9	NOTICE of Attorney Appearance by Matthew Richard Rodgers on behalf of Balther Technologies, LLC (Rodgers, Matthew) (Entered: 03/10/2010)	
03/10/2010	10	NOTICE of Attorney Appearance by Michael Aaron Benefield on behalf of Balther Technologies, LLC (Benefield, Michael) (Entered: 03/10/2010)	
03/10/2010	11	NOTICE of Attorney Appearance by David Wynne Morehan on behalf of Balther Technologies, LLC (Morehan, David) (Entered: 03/10/2010)	
03/10/2010	12	NOTICE of Attorney Appearance by Danny Lloyd Williams on behalf of Balther Technologies, LLC (Williams, Danny) (Entered: 03/10/2010)	
03/10/2010	13	NOTICE of Attorney Appearance by Jaison Chorikavumkal John on behalf of Balther Technologies, LLC (John, Jaison) (Entered: 03/10/2010)	
03/10/2010	14	NOTICE of Attorney Appearance by Christopher Needham Cravey on behalf of Balther Technologies, LLC (Cravey, Christopher) (Entered: 03/10/2010)	
04/26/2010	15	ORDER that plaintiff file a notice that the case is ready for scheduling conference when all of the defendants have either answered or filed a motion to transfer or dismiss. The	

notice shall be filed within five days of the last remaining defendant's answer or motion. Signed by Judge Leonard Davis on 04/26/10. cc:attys 4-27-10(mll,) (Entered: 04/27/2010)

- 04/28/2010 16 E-GOV SEALED SUMMONS Issued as to American Honda Motor Co. Inc., BMW of North America, LLC, Chrysler Group LLC, Daimler North America Corporation, Ferrari North America, Inc., Ford Motor Company, General Motors, LLC, Hyundai Motor America, Jaguar Land Rover North America, LLC, Maserati North America Inc, Mazda Motor of North America, Inc., Mercedes-Benz USA, LLC, Mitsubishi Motors North America, Inc., Nissan North America, Inc., Porsche Cars North America, Inc., SAAB Cars North America, Inc., Toyota Motor North America, Inc., Toyota Motor Sales, U.S.A., Inc., Volkswagen Group of America, Inc., Volvo Cars of North America, LLC., and emailed to pltf for service. (mll,) (Entered: 04/28/2010)
- 05/17/2010 17 NOTICE of Voluntary Dismissal by Balthert Technologies, LLC (Attachments: # 1 Text of Proposed Order)(Albritton, Eric) (Entered: 05/17/2010)
- 05/18/2010 18 ORDER DISMISSING CASE. This civil action is dismissed without prejudice. Pltf and defts shall bear their own costs, expenses and legal fees. Signed by Judge Leonard Davis on 05/18/10. cc:attys 5-18-10(mll,) (Entered: 05/18/2010)
- 05/18/2010 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc.. (Attachments: # 1 Text of Proposed Order) (Smith, Michael) (Entered: 05/18/2010)
- 05/19/2010 20 NOTICE by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc. re 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint (Notice of Withdrawal of Agreed MOTION for Extension of Time to File Answer) (Smith, Michael) (Entered: 05/19/2010)

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285312 (10) 7241034 July 10, 2007

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

7241034

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June 12, 2003

Automatic directional control system for vehicle headlights

REEXAM-LITIGATE:

Reexamination requested July 10, 2010 by PATENT OWNER, Reexamination No. 90/011,011 (O.G. September 7, 2010) Ex. Gp.: 3992 July 10, 2010

Reexamination requested May 16, 2011 by Volkswagen Group of America, Inc.; (Att'y Is: Clifford A. Ulrich, Kenyon & Kenyon, LLP., New York, NY), Reexamination No. 95/001,621 (O.G. June 28, 2011) Ex. Gp.: 3992 May 16, 2011

NOTICE OF LITIGATION

Balthert Technologies, LLC v. American Honda Motor Co Inc et al, Filed March 8, 2010, D.C. E.D. Texas, Doc. No. 6:10cv78

INVENTOR: Smith, James E. - Berkey, OHIO, United States of America (US), United States of America (US) ; McDonald, Anthony B. - Perrysburg, OHIO, United States of America (US), United States of America (US)

APPL-NO: 285312 (10)

FILED-DATE: October 31, 2002

GRANTED-DATE: July 10, 2007

ASSIGNEE-PRE-ISSUE:

February 6, 2003 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS), DANA CORPORATION 4500 DORR STREET TOLEDO OHIO 43615, Reel and Frame Number: 013729/0559

ASSIGNEE-AT-ISSUE:

Dana Corporation, Toledo, OHIO, United States of America (US), United States company or corporation (02)

ASSIGNEE-AFTER-ISSUE:

February 22, 2008 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS), DANA AUTOMOTIVE SYSTEMS GROUP, LLC 4500 DORR STREET TOLEDO OHIO 43615, 4500 DORR STREET, TOLEDO, OHIO, UNITED STATES OF AMERICA (US), 43615, Reel and Frame Number: 020540/0476

June 12, 2009 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS),

STRAGENT, LLC 211 W. TYLER, SUITE C LONGVIEW TEXAS 75601, 211 W. TYLER, SUITE C, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 022813/0432

March 8, 2010 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., BALTHER TECHNOLOGIES, LLC, SUITE C-4, 211 W. TYLER, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 024045/0235

LEGAL-STATUS:

February 6, 2003 - ASSIGNMENT
February 22, 2008 - ASSIGNMENT
February 22, 2008 - ASSIGNMENT
February 22, 2008 - ASSIGNMENT
June 12, 2009 - ASSIGNMENT
March 8, 2010 - ASSIGNMENT
September 7, 2010 - REQUEST FOR REEXAMINATION FILED
January 10, 2011 - FEE PAYMENT

PRIM-EXMR: Alavi, Ali

CORE TERMS: headlight, directional, controller, adjustment, sensed, algorithm, sensor, actuator, steering, minus, control system, road, suspension, responsive, automatic, feedback, orientation, beam, aiming, height, generating, electrical, input output device, plane, stored, automatically, optical, pitch, calibration, accomplish

ENGLISH-ABST:

A structure and method for operating a directional control system for vehicle headlights that is capable of altering the directional aiming angles of the headlights to account for changes in the operating conditions of the vehicle. One or more operating condition sensors may be provided that generate signals that are representative of a condition of the vehicle, such as road speed, steering angle, pitch, suspension height, rate of change of road speed, rate of change of steering angle, rate of change of pitch, and rate of change of suspension height of the vehicle. A controller is responsive to the sensor signal for generating an output signal. An actuator is adapted to be connected to the headlight to effect movement thereof in accordance with the output signal. The controller can include a table that relates values of sensed operating condition to values of the output signal. The controller is responsive to the sensor signal for looking up the output signal in the table.

NO-OF-CLAIMS: 5

Source: [Legal > / . . . / > Utility, Design and Plant Patents](#)

Terms: **patno=7241034** (Suggest Terms for My Search)

View: Custom

Segments: Abst, Appl-no, Assignee, Cert-correction, Date, Exmr, Inventor, Legal-status, Lit-reex, No-of-claims, Patno, Reexam-litigate, Ref-patno, Reissue, Rel-patno, Title

Date/Time: Monday, May 21, 2012 - 1:28 PM EDT

In

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Reexamination Requests Filed Weeks of 5/16/11 And 5/23/11 Patent Law Practice Center May 31, 2011 Tuesday 10:11 AM EST

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May 31, 2011 Tuesday 10:11 AM EST

LENGTH: 2671 words

HEADLINE: Reexamination Requests Filed Weeks of 5/16/11 And 5/23/11

BYLINE: Stefanie Levine

BODY:

... in litigation in the Middle District of North Carolina over that patent and four others.

The following inter partes requests were filed:

(1) 95/001,621 (electronically filed) " U.S. Patent No. **7,241,034** entitled AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS and owned by Dana Corporation. Filed May 16, 2011, by Volkswagen Group of America.

(2) 95/001,622 (electronically filed) ...

Source: **Combined Source Set 3**  - **News, Most Recent Two Years (English, Full Text)**

Terms: **7241034** or **7,241,034** (Suggest Terms for My Search)

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Reexamination Requests Filed Weeks of 5/16/11 And 5/23/11 Patent Law Practice Center May 31, 2011 Tuesday 10:11 AM EST

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May 31, 2011 Tuesday 10:11 AM EST

LENGTH: 2671 words

HEADLINE: Reexamination Requests Filed Weeks of 5/16/11 And 5/23/11

BYLINE: Stefanie Levine

BODY:

... in litigation in the Middle District of North Carolina over that patent and four others.

The following inter partes requests were filed:

(1) 95/001,621 (electronically filed) " U.S. Patent No. **7,241,034** entitled AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS and owned by Dana Corporation. Filed May 16, 2011, by Volkswagen Group of America.

(2) 95/001,622 (electronically filed) ...

Source: **Combined Source Set 3 [i]** - News, Most Recent Two Years (English, Full Text)

Terms: **7241034 or 7,241,034** (Suggest Terms for My Search)

View: KWIC

Date/Time: Monday, May 21, 2012 - 1:29 PM EDT

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621 90/011011	05/16/2011	7,241,034	SVIPGP109RE	1240
92045	7590	06/29/2012	EXAMINER	
The Caldwell Firm, LLC			TON, MY TRANG	
PO Box 59655			ART UNIT	
Dept. SVIPGP			PAPER NUMBER	
Dallas, TX 75229			3992	
			MAIL DATE	
			DELIVERY MODE	
			06/29/2012	
			PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

Kenyon & Kenyon, LLP

One Broadway

New York, NY 10004

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621 + 90/011011

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

OFFICE ACTION IN INTER PARTES REEXAMINATION	Control No.	Patent Under Reexamination
	95/001,621 , 90/011,011	7,241,034
	Examiner	Art Unit
	MY-TRANG TON	3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

Responsive to the communication(s) filed by:

Patent Owner on 27 April, 2012

Third Party(ies) on _____

RESPONSE TIMES ARE SET TO EXPIRE AS FOLLOWS:

For Patent Owner's Response:

2 MONTH(S) from the mailing date of this action. 37 CFR 1.945. EXTENSIONS OF TIME ARE GOVERNED BY 37 CFR 1.956.

For Third Party Requester's Comments on the Patent Owner Response:

30 DAYS from the date of service of any patent owner's response. 37 CFR 1.947. NO EXTENSIONS OF TIME ARE PERMITTED. 35 U.S.C. 314(b)(2).

All correspondence relating to this inter partes reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

This action is not an Action Closing Prosecution under 37 CFR 1.949, nor is it a Right of Appeal Notice under 37 CFR 1.953.

PART I. THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892
2. Information Disclosure Citation, PTO/SB/08
3. _____

PART II. SUMMARY OF ACTION:

- 1a. Claims 1-41 are subject to reexamination.
- 1b. Claims _____ are not subject to reexamination.
2. Claims _____ have been canceled.
3. Claims _____ are confirmed. [Unamended patent claims]
4. Claims _____ are patentable. [Amended or new claims]
5. Claims 1,2,4-6,8-10 and 12-37 are rejected.
6. Claims 3,7,11 and 38-41 are objected to.
7. The drawings filed on _____ are acceptable are not acceptable.
8. The drawing correction request filed on _____ is: approved. disapproved.
9. Acknowledgment is made of the claim for priority under 35 U.S.C. 119 (a)-(d). The certified copy has:
 been received. not been received. been filed in Application/Control No 95001621.
10. Other _____

INTER PARTES REEXAMINATION OFFICE ACTION

This is an *interparte* reexamination of United States Patent No. 7,241,034 ("the '034 patent"). This proceeding is a merger of 90/011,011 and 95/001,621.

Patent Owner's proposed Amendment and remarks filed on 4/27/2012 have been fully considered. Thus, all subsequent reexamination prosecution and examination will be on the basis of the claims as amended in the proposed amendment. **It is noted that although the Office actions will treat proposed amendments as though they have been entered, the proposed amendments will not be effective until the reexamination certificate is issued.**

This action responds to Patent Owner's Amendment of 4/27/2012.

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Status of the claims

The following is the status of the claims with respect to the proposed Amendment:

With respect to proposed amendment, Claims 1-41 are pending. Of these, claim 1 is independent claim.

Claims 1-5 are amended.

Claims 6-41 are newly added.

Thus, claims 1-41 are reexamined in this proceeding.

References Relied Upon in the Request

For EP 90/011,011:

U.S. Patent 4,733,333 issued to Shibata (hereinafter "Shibata")

For IP 95/001,621:

1. United Kingdom Patent Application Publication No. 2309773 by Uchida (hereinafter "Uchida").
2. United Kingdom Patent Application Publication No. 2309774 by Takahashi (hereinafter "Takahashi").
3. U.S. Patent No. 5,182,460 by Hussman (hereinafter "Hussman").

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4. German Patent Application Publication No. 3110094 by Miskin et al (hereinafter "Miskin et al.").
5. German Patent Application Publication No. 3129891 by Leleve (hereinafter "Leleve").
6. U.S. Patent No. 6,305,823 by Toda et al (hereinafter "Toda et al.").
7. U.S. Patent No. 6,193,398 by Okuchi et al (hereinafter "Okuchi et al.").
8. U.S. Patent No. 5,909,949 by Gotoh (hereinafter "Gotoh").
9. U.S. Patent No. 4,954,933 by Wassen et al (hereinafter "Wassen et al.").

Issues Raised

For EP 90/011,011:

Claims 1 and 3 are anticipated under 35 U.S.C. § 102(b) by Shibata.

For IP 95/001,621:

1. Claims 1, 2, 4, and 5 are anticipated by Uchida under 35 U.S.C. § 102(b).
2. Claims 1, 2, 4, and 5 are anticipated by Takahashi under 35 U.S.C. § 102(b).

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3. Claims 1, 2, 4, and 5 are anticipated by Hussman under 35 U.S.C. § 102(b).
4. Claims 1 and 5 are anticipated by Miskin et al. under 35 U.S.C. § 102(b).
5. Claims 1 and 5 are anticipated by Leleve under 35 U.S.C. § 102(b).
6. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Uchida under 35 U.S.C. § 103(a).
7. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a).
8. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Hussman under 35 U.S.C. § 103(a).
9. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Miskin et al. under 35 U.S.C. § 103(a).
10. Claims 1, 2, 4, and 5 are unpatentable over the combination of Toda et al. and Leleve under 35 U.S.C. § 103(a).
11. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a).
12. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a).
13. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a).

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14. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Miskin et al. under 35 U.S.C. § 103(a).
15. Claims 1, 2, 4, and 5 are unpatentable over the combination of Okuchi et al. and Leleve under 35 U.S.C. § 103(a).
16. Claims 1 to 5 are unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a).
17. Claims 1 to 5 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a).
18. Claims 1 to 5 are unpatentable over the combination of Gotoh and Hussman under 35 U.S.C. § 103(a).
19. Claims 1, 2, 3, and 5 are unpatentable over the combination of Gotoh and Miskin et al. under 35 U.S.C. § 103(a).
20. Claims 1 to 5 are unpatentable over the combination of Gotoh and Leleve under 35 U.S.C. § 103(a).
21. Proposed claims 1, 2, 4 to 6, 9 to 13, 20, 22, 24, 25, 37, 38, 41, 42, 44 and 45 are anticipated by Uchida under 35 U.S.C. § 102(b).
22. Proposed claims 1, 2,4-6, 9-11, 17, 18, 20, 21, 22, 24, 25, 28, 33, 34, 37, 38, 41, 42, 44 and 45 are anticipated by Takahashi under 35 U.S.C. § 102(b).
23. Proposed claims 1, 2, 4-6, 9, 10, 37, 38, 41, 42, 44 and 45 are anticipated by Hussman under 35 U.S.C. § 102(b).
24. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-

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42, 44 and 45 are unpatentable over the combination of Toda et al. and Uchida under 35 U.S.C. § 103(a).

25. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 33, 34, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a).

26. Proposed claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Hussman under 35 U.S.C. § 103(a).

27. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a).

28. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33-35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a).

29. Proposed claims 1, 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a).

30. Proposed claims 1-13, 20, 22, 24-26, 28, 29, 37, 38 and 41 to 45 are unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a).

31. Proposed claims 1-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37,

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38 and 41-45 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a).

32. Proposed claims 1-13, 24, 26, 28, 29, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Hussman under 35 U.S.C. § 103(a).

33. Proposed claims 17, 19, 21, 23, 26 and 30-32 are unpatentable in view of the combination of Uchida and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a).

34. Proposed claims 19, 23, 26 and 30-32 are unpatentable in view of the combination of Takahashi and the admitted Prior Art described in the '034 Patent specification under 35 U.S.C. § 103(a).

35. Proposed claims 17-21, 23-26 and 30-32 are unpatentable in view of the combination of Hussman and the admitted Prior Art described in the '034 Patent specification under 35 U.S.C. § 103(a).

36. Proposed claim 27 is unpatentable over the combination of Uchida and Wassen et al. under 35 U.S.C. § 103(a).

37. Proposed claim 27 is unpatentable over the combination of Takahashi and Wassen et al. under 35 U.S.C. § 103(a).

38. Proposed Claim 27 is unpatentable over the combination of Hussman and Wassen et al. under 35 U.S.C. § 103(a).

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*** It is noted that the proposed grounds of rejections in Issues 3, 8, 13 and 18 that were found not to raise a SNQ in the Order will not be discussed further.

*** As explained in the Order of 6/23/2011, it was agreed that Issues 1-2, 4-7, 9-12, 14-17 and 19-20 raised an SNQ for the original claims 1-5 under reexamination. However, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and new claims 6-41 that accompanied the amendment (see MPEP 2221). Thus, Issues 1-2, 4-7, 9-12, 14-17 and 19-20 raised for the original claims 1-5 will not be evaluated.

*** Issues 21-38 raised for amended claims 1-5 and newly added claims 6-41 will be evaluated below.

Status of Previous Rejection in EP 90/011,011

The following rejection was previously made by the Office:

Claims 1 and 3 was previous rejected under 35 U.S.C. § 102(b) as being anticipated by Shibata.

This rejection **is withdrawn**.

Amended claim 1 now required: "*two or more sensors ... including two or more of road speed, steering angle, pitch, and suspension height of the vehicle*"

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*and "a controller ... in response to relatively small variations in the sensed conditions" in combination with **"two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal"**. These features are not taught by Shibata. Shibata, is not seen to teach the amendatory subject matter of independent claim 1.*

Claim 3 is dependent claim and therefore is distinguishable from Shibata at least the same reasons as its respective independent base claim 1, and add further claim limitation of its own.

Accordingly, the previous rejection of claims 1 and 3 under 35 U.S.C. § 102(b) as being anticipated by Shibata are withdrawn.

Rejections proposed in IP 95/001, 621

Within the scope of this reexamination proceeding, the request proposes the rejections in issues 21-38 for amended claims 1-5 and newly added claims 6-41 are discussed below.

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Analysis

Issue 21: The proposed rejection of claims 1, 2, 4-6, 9-13, 20, 22, 24, 25, 37, 38, 41, 42, 44 and 45 are anticipated by Uchida under 35 U.S.C. § 102(b) (Request at pages 48-50).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 9-13, 20, 22, 24, 25, 37, 38, 41 as anticipated by Uchida under 35 U.S.C § 102(b) were proposed by the requester in the request for reexamination, pages 48-50 and claim chart, pages 156-172, is **NOT ADOPTED**.

It is not agreed that consideration of Uchida presented a reasonable rejection with respect to the amended claims 1-41 of the '034 patent. This rejection will not be applied against these claims for the following reason:

Independent claim 1 now required:

“two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions; and

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said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal".

While Uchida does teach in Fig. 1 two or more sensors (i.e, 2, 7) that are each adapted to generate a signal (output of 2, 7) that is representative of at least one of a plurality of sensed conditions of a vehicle (page 9, lines 13-23), the sensed conditions including at least steering angle and pitch of the vehicle (page 6, lines 9-15; page 9, lines 28-33; page 12, line 27- page 13, line 15); and a controller (3) that is responsive to the two or more sensor signals (the output of 2, 7) for generating at least one output signal (output of 3a, 3b). However, Uchida Fig. 1 only shows one actuator (4) connected to the headlight (5) to effect movement thereof in accordance with the output signal (the output of 3a, 3b). Thus, the proposed rejection of claim 1 fails to persuasively show any teaching of Uchida corresponding to the feature of "**two or more actuators that each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal**" of claim 1. Therefore, the reference put forth in the request, Uchida, is not seen to teach the amendatory subject matter of independent claim 1.

Claims 2, 4-6, 9-13, 20, 22, 24, 25, 37, 38, 41 depend upon claim 1.

Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2, 4-6, 9-13, 20, 22, 24, 25, 37, 38, 41 are also not adopted.

Issue 22: The proposed rejection of claims 1, 2, 4-6, 9-11, 17, 18, 20-22, 24, 25, 28, 33, 34, 37, 38, 41, 42, 44 and 45 are anticipated by Takahashi under 35 U.S.C. § 102(b) (Request at pages 50-52 and claim chart, pages 173-192).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 (the number of claims as of the Amendment filed 4/27/2012) as anticipated by Takahashi under 35 U.S.C § 102(b) were proposed by the requester in the request for reexamination, pages 50-52 and claim chart, pages 173-192, is **ADOPTED with modifications to the rationale in support thereof.**

Claims 1, 2, 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 are rejected under 35 U.S.C. § 102(b) as being anticipated by Takahashi.

Regarding claim 1: Takahashi discloses an automatic directional control system (1, Fig. 1) for a vehicle headlight (6), comprising:

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"Therefore, there is conventionally known a device which includes a device for detecting the posture of the vehicle by detecting the inclination and height of a vehicle body, and calculates the amount of variations in the inclination of the vehicle based on the information that is obtained by the detect device, thereby being able to adjust automatically the illumination direction of the lamp." (page 2, lines 6-13)

two or more sensors (2, 3) that are each adapted to generate a signal (output of 2 and 3) that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

"The vehicle posture detection device 2 is used to detect the posture of a vehicle (including the vertical inclination of the vehicle in the advancing direction thereof). For example, when there is used height detection device 7 which detects the height of the body of the vehicle, as shown in Fig. 2, there are available a method which measures a distance L between the height detection device 7 and a road surface G by use of detect waves such as ultrasonic waves, laser beams or the like, and a method in which the height detection device 7 detects the expansion and contraction amount x of a suspension S in order to detect the amount of variations in the vertical position of the axle of the vehicle." (page 5, line 30 to page 6, line 9)

"The vehicle running condition detection device 4 is used to detect the running conditions of the vehicle (including the stopping or stationary condition thereof), while the detect signal of the vehicle running condition detection device 3 is transmitted to the control device 4. As the vehicle running condition detection device 3, for example, there can be used vehicle speed detection device which is one of the existing facilities of the vehicle. Also, every kind of information can be used, provided that it can be used to detect the running conditions of the vehicle." (page 6, lines 16-25)

a controller (4) that is responsive to said two or more sensor signals (output of 2 and 3) for generating at least one output signal (output of 4) only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators (19, 19', Fig. 9) from being operated continuously or

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unduly frequently in response to relatively small variations in the sensed conditions; and

"Therefore, when the amount of variations with time of the detect signal of the vehicle posture detect signal 2 is equal to or larger than a reference value, it may be judged that the gradient of the road has varied, and the illumination direction of the lamp 6 may be corrected in accordance with the detect signal of the vehicle posture detection device 2." (page 8, lines 26-32)

"Also, in order to prevent the illumination direction of the lamp 6 from being corrected inadvertently when a sudden change in the posture of the vehicle occurs temporarily or due to the wrong operation of the lamp 6 caused by external disturbances, for example, when the vehicle makes a sudden start or a sudden stop, preferably, a threshold value with respect to time may be set in detection of the road gradient and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a time equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected; or, a threshold value with respect to the running distance of the vehicle may be set and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a distance equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected." (page 9, lines 16-34)

said two or more actuators (19, 19', Fig. 9) each being adapted to be connected to the headlight (6) to effect movement thereof in accordance with said at least one output signal (the output signal of 4).

"A rudder resistance network 18, which corresponds to the above-mentioned drive control device 5a, is used to convert the output signal of the microcomputer 10 into an analog signal and transmits it to actuators 19 and 19' which are disposed downstream thereof." (page 16, line 31 to page 17, line 1)

Regarding claim 2: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (2 and 3) further generate a signal that is representative of the road speed of the vehicle.

"The vehicle running condition detection device 4 is used to detect the running conditions of the vehicle (including the stopping or stationary condition thereof), while the detect signal of the

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vehicle running condition detection device 3 is transmitted to the control device 4. As the vehicle running condition detection device 3, for example, there can be used vehicle speed detection device which is one of the existing facilities of the vehicle. Also, every kind of information can be used, provided that it can be used to detect the running conditions of the vehicle." (page 6, lines 16-25)

Regarding claim 4: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (2 and 3) further generates a signal that is representative of a rate of change of pitch of the vehicle.

"Therefore, there is conventionally known a device which includes a device for detecting the posture of the vehicle by detecting the inclination and height of a vehicle body, and calculates the amount of variations in the inclination of the vehicle based on the information that is obtained by the detect device, thereby being able to adjust automatically the illumination direction of the lamp." (page 2, lines 6-13)

Regarding claim 5: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (2 and 3) further generates a signal that is representative of the suspension height of the vehicle.

"Therefore, there is conventionally known a device which includes a device for detecting the posture of the vehicle by detecting the inclination and height of a vehicle body, and calculates the amount of variations in the inclination of the vehicle based on the information that is obtained by the detect device, thereby being able to adjust automatically the illumination direction of the lamp." (page 2, lines 6-13)

"The vehicle posture detection device 2 is used to detect the posture of a vehicle (including the vertical inclination of the vehicle in the advancing direction thereof). For example, when there is used height detection device 7 which detects the height of the body of the vehicle, as shown in Fig. 2, there are available a method which measures a distance L between the height detection device 7 and a road surface G by use of detect waves such as ultrasonic waves, laser beams or the like, and a method in which the height detection device 7 detects the expansion and contraction amount x of a suspension S in order to detect the amount of variations in the vertical position of the axle of the vehicle." (page 5, line 30 to page 6, line 9)

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Regarding claim 6: The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor (2) and a second sensor (3).

Regarding claim 8: The automatic directional control system defined in claim 6, wherein said first sensor (2) is physically separate from said second sensor (3).

Regarding claim 15: The automatic directional control system defined in claim 1, wherein the two or more actuators (19, 19') include the first actuator (19) that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

"In particular, the method 1) is the simplest method that can change the illumination pattern of the lamp 6 within a vertical plane, in which the entire lamp is rotated about the rotary shaft thereof to thereby change the illumination angle of the lamp 6 with respect to a horizontal plane including the optical axis of the lamp. For example, in the method 1), there can be used a drive mechanism in which the right and left side surfaces of the lamp 6 are supported rotatably, and the rotary shaft of the lamp 6 is rotated directly by a drive source such as a motor or the like, or a member fixed to or formed integrally with the lamp 6 is rotated by the drive device 5." (page 11, lines 21 to 32)

Regarding claim 17: The automatic directional control system defined in claim 1, wherein the two or more actuators (19, 19') include an electronically controlled mechanical actuator.

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"A rudder resistance network 18, which corresponds to the above-mentioned drive control device 5a, is used to convert the output signal of the microcomputer 10 into an analog signal and transmits it to actuators 19 and 19' which are disposed downstream thereof." (page 16, line 31 to page 17, line 1)

"As an example of such lamp, there is available a lamp including a mechanism which can use the rotational force of the motor as the rotational force of the lam through a transmission mechanism using a worm and worm wheel (for example, see Japanese Patent Publication No. Hei. 63-166672)." (page 11, line 32 to page 12, line 3)

Regarding claim 18: The automatic directional control system defined in claim 1, wherein the two or more actuators (19, 19', Fig. 9) include a step motor.

"Besides this, according to the invention, the lamp or the component thereof can be driven or controlled by use of a stepping motor to thereby correct the illumination direction of the lamp." (page 18, lines 5-8)

Regarding claim 19: The automatic directional control system defined in claim 1, wherein the two or more actuators (19, 19', Fig. 9) include a servo motor.

"A rudder resistance network 18, which corresponds to the above-mentioned drive control device 5a, is used to convert the output signal of the microcomputer 10 into an analog signal and transmits it to actuators 19 and 19' which are disposed downstream thereof." (page 16, line 31 to page 17, line 1)

"As an example of such lamp, there is available a lamp including a mechanism which can use the rotational force of the motor as the rotational force of the lam through a transmission mechanism using a worm and worm wheel (for example, see Japanese Patent Publication No. Hei. 63-166672)." (page 11, line 32 to page 12, line 3)

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Regarding claim 23: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a microprocessor (10, Fig. 9).

"When a turn-on switch 12 for the lamp 6 is put into operation, a supply voltage from a constant voltage supply circuit 13 and a reset signal from a reset circuit 14 are supplied to the microcomputer 10." (page 16, lines 1-4)

Regarding claim 24. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller (10).

Regarding claim 28: The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes memory (15, Fig. 9).

"Also, a non-volatile memory 15 (such as an electrically erasable EEPROM, or the like) for storing control programs and data values therein [sic] and an oscillator 16 used to generate a clock signal are additionally attached to the microcomputer 10." (page 16, lines 5-9)

Regarding claim 29: The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory (15, Fig. 9).

"Also, a non-volatile memory 15 (such as an electrically erasable EEPROM, or the like) for storing control programs and data values therein [sic] and an oscillator 16 used to generate a clock signal are additionally attached to the microcomputer 10." (page 16, lines 5-9)

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Regarding claim 31: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

"The vehicle posture detection device 2 is used to detect the posture of a vehicle (including the vertical inclination of the vehicle in the advancing direction thereof). For example, when there is used height detection device 7 which detects the height of the body of the vehicle, as shown in Fig. 2, there are available a method which measures a distance L between the height detection device 7 and a road surface G by use of detect waves such as ultrasonic waves, laser beams or the like, and a method in which the height detection device 7 detects the expansion and contraction amount x of a suspension S in order to detect the amount of variations in the vertical position of the axle of the vehicle." (page 5, line 30 to page 6, line 9)

Regarding claim 32. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

"Therefore, there is conventionally known a device which includes a device for detecting the posture of the vehicle by detecting the inclination and height of a vehicle body, and calculates the amount of variations in the inclination of the vehicle based on the information that is obtained by the detect device, thereby being able to adjust automatically the illumination direction of the lamp." (page 2, lines 6-13)

"The vehicle posture detection device is used to detect the posture of a vehicle (including the vertical inclination of the vehicle in the advancing direction thereof). For example, when there is used height detection device 7 which detects the height of the body of the vehicle, as shown in Fig. 2, there are available a method which measures a distance L between the height detection device 7 and a road surface G by use of detect waves such as ultrasonic waves, laser beams or the like, and a method in which the height detection device 7 detects the expansion and contraction amount x of a suspension S in order to detect the amount of variations in the vertical position of the axle of the vehicle." (page 5, line 30 to page 6, line 9)

Regarding claim 35: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such

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that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

"Therefore, when the amount of variations with time of the detect signal of the vehicle posture detect signal 2 is equal to or larger than a reference value, it may be judged that the gradient of the road has varied, and the illumination direction of the lamp 6 may be corrected in accordance with the detect signal of the vehicle posture detection device 2." (page 8, lines 26-32)

"Also, in order to prevent the illumination direction of the lamp 6 from being corrected inadvertently when a sudden change in the posture of the vehicle occurs temporarily or due to the wrong operation of the lamp 6 caused by external disturbances, for example, when the vehicle makes a sudden start or a sudden stop, preferably, a threshold value with respect to time may be set in detection of the road gradient and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a time equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected; or, a threshold value with respect to the running distance of the vehicle may be set and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a distance equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected." (page 9, lines 16-34)

Regarding claim 36: The automatic directional control system defined in claim 1, wherein said controller (4) is configured to be responsive to said two or more sensor signals (2 and 3) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators (19, 19', Fig. 9) from being operated continuously in response to relatively small variations in the sensed conditions.

"Therefore, when the amount of variations with time of the detect signal of the vehicle posture detect signal 2 is equal to or larger than a reference value, it may be judged that the gradient of the road has varied, and the illumination direction of the lamp 6 may be corrected in accordance with the detect signal of the vehicle posture detection device 2." (page 8, lines 26-32)

"Also, in order to prevent the illumination direction of the lamp 6 from being corrected inadvertently when a sudden change in the posture of the vehicle occurs temporarily or due to the wrong operation of the lamp 6 caused by external disturbances, for example, when

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the vehicle makes a sudden start or a sudden stop, preferably, a threshold value with respect to time may be set in detection of the road gradient and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a time equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected; or, a threshold value with respect to the running distance of the vehicle may be set and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a distance equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected." (page 9, lines 16-34)

Regarding claim 37: The automatic directional control system defined in claim 1, wherein said controller (4) is configured to be responsive to said two or more sensor signals (2 and 3) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions.

"Therefore, when the amount of variations with time of the detect signal of the vehicle posture detect signal 2 is equal to or larger than a reference value, it may be judged that the gradient of the road has varied, and the illumination direction of the lamp 6 may be corrected in accordance with the detect signal of the vehicle posture detection device 2." (page 8, lines 26 to 32)

"Also, in order to prevent the illumination direction of the lamp 6 from being corrected inadvertently when a sudden change in the posture of the vehicle occurs temporarily or due to the wrong operation of the lamp 6 caused by external disturbances, for example, when the vehicle makes a sudden start or a sudden stop, preferably, a threshold value with respect to time may be set in detection of the road gradient and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a time equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected; or, a threshold value with respect to the running distance of the vehicle may be set and, only when the amount of variations in the detect signal of the vehicle posture detection device 2 exceeds a given reference value and such excessive state continues for a distance equal to or more than the threshold value, the illumination direction of the lamp 6 may be corrected." (page 9, lines 16 to 34)

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Issue 23: The proposed rejection of claims 1, 2, 4-6, 9, 10, 37, 38, 41, 42, 44 and 45 are anticipated by Hussman Under 35 U.S.C. § 102(b) (Request at pages 52-53, and claim chart, pages 193-202).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 9, 10, 37, 38, 41 as anticipated by Hussman under 35 U.S.C § 102(b) were proposed by the requester in the request for reexamination, pages 52-53 and claim chart, pages 193-202, is **NOT ADOPTED.**

It is not agreed that consideration of Toda in view of Hussman presented a reasonable rejection with respect to the amended claims 1-41 of the '034 patent. This rejection will not be applied against these claims for the following reason:

As pointed out on pages 52-53 of the request, and the claim chart, pages 193-202, the requester indicates that Hussman teaches a controller that is responsive to the sensor signal for performing the recited functions at col. 3, lines 30-39 and lines 49-61; col. 4, lines 6-12 and col. 6, lines 51-64.

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However, these paragraphs do not teach the limitation "a controller that is **responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions**" as recited in amended claim 1.

Hussman merely teaches:

"The curve-recognition device K is electrically conductively coupled with the switchover device SE and thereby couples the third filter F3 electrically conductively with the regulator R if a difference signal other than zero is fed to it from the subtractor SU. When no difference signal from the subtractor SU is present, the curve-recognition device K switches the switchover device SE so that the first filter F1 is coupled to the regulator R". (col. 3, lines 30-39)

"At the coupling between the switchover device SE and the regulator R, a matching device AE is, here for example, arranged which, upon a switchover by the switchover device SE, adjusts the various nominal values to one another so that discontinuities or jumps in the adjustment and regulation of the illumination range are avoided". (col. 4, lines 6-12)

There is no evidence presented in these paragraphs that Hussman teaches a controller would include the same function as called for in claim 1. Thus, Hussman does not teach a key element of claim 1. The proposed rejection of amended claim 1 fails to persuasively show any teaching of Hussman corresponding to the feature of "the controller that is **responsive to said two or more sensor signals for generating at least one output signal**

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only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions” of claim 1. Moreover, the independent claim 1 now required: “**two or more actuators** each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal”. However, Hussman only shows one actuator (R). Hence, the reference put forth in the request, Hussman, is not seen to teach the amendatory subject matter of independent claim 1.

Claims 2, 4-6, 9, 10, 37, 38, 41 depend upon claim 1. Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2, 4-6, 9, 10, 37, 38 and 41 are also not adopted.

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Issue 24: The proposed rejection of claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Uchida under 35 U.S.C. § 103(a) (Request at pages 53-56, and claim chart, pages 203-237).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 as unpatentable over Toda in view of Uchida under 35 U.S.C § 103(a) were proposed by the requester in the request for reexamination, pages 53-56 and claim chart, pages 203-237, is **ADOPTED with modifications to the rationale in support thereof.**

Claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 are rejected under 35 U.S.C § 103(a) as being unpatentable over Toda in view of Uchida.

Regarding claim 1: Toda discloses an automatic directional control system (Fig. 1) for a vehicle headlight (1L, 1R) comprising:

two or more sensors (12, 14) that are each adapted to generate a signal (output of 12 and 14) that is representative of at least one of a plurality of

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sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11 to 18)

a controller (CPU 16) that is responsive to said two or more sensor signals (output of 12 and 14) for generating at least one output signal (output of CPU 16);

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11 to 18)

and two or more actuators (17L, 17R) each being adapted to be connected to the headlight (1L, 1R) to effect movement thereof in accordance with said at least one output signal (the output signal of CPU 16).

"The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R).

The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 7-18)

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However, Toda does not specifically disclose “*only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*” as required in claim 1.

Uchida teaches a vehicle lamp illumination directional control device which detects both the posture and speed of a vehicle and adjusts the illumination direction of a vehicle lamp so that the illumination direction can always be kept in a predetermined direction (page 1, lines 3-7). Uchida discloses that signals to the drive means are over-ridden when acceleration is not above a given threshold, such as when the vehicle is running over a rough road, to prevent excessive adjustment of the illumination direction.

It would have been obvious to one of ordinary skill in the art to have utilized the teachings of Uchida in Toda's automatic leveling device as a mere application of a known technique to a known device ready for improvement to yield predictable results. One of ordinary skill in the art would readily predict that the device would function to prevent excessive adjustment of the illumination direction, and, thus, the combination would function predictably.

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Regarding claim 2: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12, 14) further generate a signal that is representative of the road speed of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11-18)

Regarding claim 4: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12 and 14) further generates a signal that is representative of a rate of change of pitch of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11-18)

Regarding claim 5: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12 and 14) further generates a signal that is representative of the suspension height of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11 to 18)

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Regarding claim 6: The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor (12) and a second sensor (14).

Regarding claim 8: The automatic directional control system defined in claim 6, wherein said first sensor (12) is physically separate from said second sensor (14).

Regarding claim 9: The automatic directional control system defined in claim 1, further comprising one or more additional sensors (20L, 20R) for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

"In the actuator failure judgment control step 130, as will be described later, the control unit 16 determines based on signals from the actuator failure detection sensors 20 (20L, 20R) whether or not there is a failure of driving of the motors 10 (10L, 10R). If no failure is detected, move to step 108 where the control unit 16 outputs signals to the motor drivers 18 (18L, 18R) so as to drive the motors 10 (10L, 10R) a magnitude corresponding to the pitch angle θ_a when the vehicle is at halt, and then return to step 100. This simultaneously levels the left and right headlamps 1 (1L, 1R)" (col. 5, lines 1-5)

First, in step 132, a signal from the actuator failure detection sensor 20R is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10R of the right-hand side headlamp 1R fails. If NO (no failure), move to step 136, where a signal from the actuator failure detection sensor 18L is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10L of the left-hand side headlamp 10L fails. If NO (no failure) then move to step 108, where the control circuit 16 outputs signals to the motor drivers 18R, 18L so as to control the motors 10R, 10L based on the pitch angle θ_1 when the vehicle is at a halt calculated in step 106 and stored in the RAM (or the pitch angle θ_2 at the time of stable running operated in step 128 and stored in the RAM), then returning to step 100. Thus, in a case where neither of the leveling motors 10L, 10R of the left and right headlamps is failing, the left and right headlamps are simultaneously leveled. In

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addition, in a case where the driving of the motors 10L, 10R is controlled based on the pitch angle 02 at the time of stable running, as is previously described, a flag is set. (col. 6, lines 30-51)

Regarding claim 12: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (20L, 20R) generate a signal that is representative of the rate of change of pitch of the vehicle.

"In the actuator failure judgment control step 130, as will be described later, the control unit 16 determines based on signals from the actuator failure detection sensors 20 (20L, 20R) whether or not there is a failure of driving of the motors 10 (10L, 10R). If no failure is detected, move to step 108 where the control unit 16 outputs signals to the motor drivers 18 (18L, 18R) so as to drive the motors 10 (10L, 10R) a magnitude corresponding to the pitch angle 0_a when the vehicle is at halt, and then return to step 100. This simultaneously levels the left and right headlamps 1 (1L, 1R)" (col. 5, lines 1-5)

First, in step 132, a signal from the actuator failure detection sensor 20R is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10R of the right-hand side headlamp 1R fails. If NO (no failure), move to step 136, where a signal from the actuator failure detection sensor 18L is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10L of the left-hand side headlamp 10L fails. If NO (no failure) then move to step 108, where the control circuit 16 outputs signals to the motor drivers 18R, 18L so as to control the motors 10R, 10L based on the pitch angle 01 when the vehicle is at a halt calculated in step 106 and stored in the RAM (or the pitch angle 02 at the time of stable running operated in step 128 and stored in the RAM), then returning to step 100. Thus, in a case where neither of the leveling motors 10L, 10R of the left and right headlamps is failing, the left and right headlamps are simultaneously leveled. In addition, in a case where the driving of the motors 10L, 10R is controlled based on the pitch angle 02 at the time of stable running, as is previously described, a flag is set. (col. 6, lines 30-51)

Regarding claim 14: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator (17L) connected to the headlight to effect movement thereof in a first direction and a second actuator (17R) connected to the

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headlight to effect movement thereof in a second direction different from the first direction.

Regarding claim 15: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include the first actuator (19) that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlights having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

Regarding claim 17: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include an electronically controlled mechanical actuator.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlights having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a

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magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18 to 24)

Regarding claim 18: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include a step motor.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlamps having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

Regarding claim 19: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include a servo motor.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlamps having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18-24)

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Regarding claim 23: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a microprocessor (CPU 16).

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18 to 24)

Regarding claim 24. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller (CPU 16).

The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18 to 24)

Regarding claim 25: The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes at least one position feedback sensor (20L, 20R) capable of providing a position feedback signal (feedback from 10 to 16) associated with at least one of the two or more actuators (17L, 17R).

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Regarding claim 31: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

"When a two-sensor system is used in which vehicle height sensors are provided on both the front and rear wheels, the vehicle pitch angle is obtained from displacement distances of the vehicle height at the front and rear of the vehicle and a wheel base of the vehicle, or a distance between front and rear axles of the vehicle." (col. 3, lines 48 to 53)

Regarding claim 32. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

"When a two-sensor system is used in which vehicle height sensors are provided on both the front and rear wheels, the vehicle pitch angle is obtained from displacement distances of the vehicle height at the front and rear of the vehicle and a wheel base of the vehicle, or a distance between front and rear axles of the vehicle." (col. 3, lines 48 to 53)

Regarding claim 33: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is

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caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1-25)

Regarding claim 34: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1 to 25)

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Regarding claim 35: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1- 25)

Regarding claim 36: The automatic directional control system defined in claim 1, wherein said controller (CPU16) is configured to be responsive to said two or more sensor signals (the output of 12 and 14) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators (17L, 17R) from being operated continuously in response to relatively small variations in the sensed conditions (Toda in combination with Uchida: Uchida teaches that the vehicle is judged to be in acceleration or deceleration running condition by determining if a

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calculated value of acceleration is more or less than a reference value. Page 10, line 26 to page 11, line 6).

Regarding claim 37: The automatic directional control system defined in claim 1, wherein said controller (4) is configured to be responsive to said two or more sensor signals (2 and 3) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions (Toda in combination with Uchida: Uchida teaches that the vehicle is judged to be in acceleration or deceleration running condition by determining if a calculated value of acceleration is more or less than a reference value. Page 10, line 26 to page 11, line 6).

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Issue 25: The proposed rejection of claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 33, 34, 36-42, 44 and 45 are unpatentable over the combination of Toda et al. and Takahashi under 35 U.S.C. § 103(a) (Request at pages 56-58, and claim chart, pages 238-272).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 as unpatentable over Toda in view of Takahashi under 35 U.S.C § 103(a) were proposed by the requester in the request for reexamination, pages 56-58 and claim chart, pages 238-272, is **ADOPTED with modifications to the rationale in support thereof.**

Claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 are rejected under 35 U.S.C § 103(a) as unpatentable over Toda in view of Takahashi.

Regarding claim 1: Toda discloses an automatic directional control system (Fig. 1) for a vehicle headlight (1L, 1R) comprising:

two or more sensors (12, 14) that are each adapted to generate a signal (output of 12 and 14) that is representative of at least one of a plurality of

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sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11 to 18)

a controller (CPU 16) that is responsive to said two or more sensor signals (output of 12 and 14) for generating at least one output signal (output of CPU 16);

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11 to 18)

and two or more actuators (17L, 17R) each being adapted to be connected to the headlight (1L, 1R) to effect movement thereof in accordance with said at least one output signal (the output signal of CPU 16).

"The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R).

The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 7-18)

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However, Toda does not specifically disclose “*only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*” as required in claim 1.

Takahashi teaches a threshold value with respect to vehicle posture prevents the adjustment of the illumination direction when the vehicle makes sudden stops or starts. A threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3).

It would have been obvious to one of ordinary skill in the art to have utilized the teachings of Takahashi in Toda's automatic leveling device as a mere application of a known technique to a known device ready for improvement to yield predictable results. One of ordinary skill in the art would readily predict that the device would function to prevent the adjustment of the illumination direction when the vehicle makes sudden stops or starts, and, thus, the combination would function predictably.

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Regarding claim 2: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12, 14) further generate a signal that is representative of the road speed of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11-18)

Regarding claim 4: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12 and 14) further generates a signal that is representative of a rate of change of pitch of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11-18)

Regarding claim 5: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (12 and 14) further generates a signal that is representative of the suspension height of the vehicle.

"The headlamp automatic leveling device includes the actuators 17 (17L, 17R) for tilt adjusting respective optical axes L of the headlamps 1 (1L, 1R) vertically, actuator failure detection sensors 20 (20L, 20R), a headlamp switch-on switch 11, vehicle speed sensors 12 as a vehicle speed detection means for detecting the speed of a vehicle, vehicle height sensors 14 constituting a part of a vehicle pitch angle detection means, a CPU 16 as a control unit." (col. 3, lines 11-18)

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Regarding claim 6: The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor (12) and a second sensor (14).

Regarding claim 8: The automatic directional control system defined in claim 6, wherein said first sensor (12) is physically separate from said second sensor (14).

Regarding claim 9: The automatic directional control system defined in claim 1, further comprising one or more additional sensors (20L, 20R) for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

"In the actuator failure judgment control step 130, as will be described later, the control unit 16 determines based on signals from the actuator failure detection sensors 20 (20L, 20R) whether or not there is a failure of driving of the motors 10 (10L, 10R). If no failure is detected, move to step 108 where the control unit 16 outputs signals to the motor drivers 18 (18L, 18R) so as to drive the motors 10 (10L, 10R) a magnitude corresponding to the pitch angle θ_a when the vehicle is at halt, and then return to step 100. This simultaneously levels the left and right headlamps 1 (1L, 1R)" (col. 5, lines 1-5)

First, in step 132, a signal from the actuator failure detection sensor 20R is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10R of the right-hand side headlamp 1R fails. If NO (no failure), move to step 136, where a signal from the actuator failure detection sensor 18L is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10L of the left-hand side headlamp 10L fails. If NO (no failure) then move to step 108, where the control circuit 16 outputs signals to the motor drivers 18R, 18L so as to control the motors 10R, 10L based on the pitch angle θ_1 when the vehicle is at a halt calculated in step 106 and stored in the RAM (or the pitch angle θ_2 at the time of stable running operated in step 128 and stored in the RAM), then returning to step 100. Thus, in a case where neither of the leveling motors 10L, 10R of the left and right headlamps is failing, the left and right headlamps are simultaneously leveled. In

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addition, in a case where the driving of the motors 10L, 10R is controlled based on the pitch angle 02 at the time of stable running, as is previously described, a flag is set. (col. 6, lines 30-51)

Regarding claim 12: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (20L, 20R) generate a signal that is representative of the rate of change of pitch of the vehicle.

"In the actuator failure judgment control step 130, as will be described later, the control unit 16 determines based on signals from the actuator failure detection sensors 20 (20L, 20R) whether or not there is a failure of driving of the motors 10 (10L, 10R). If no failure is detected, move to step 108 where the control unit 16 outputs signals to the motor drivers 18 (18L, 18R) so as to drive the motors 10 (10L, 10R) a magnitude corresponding to the pitch angle 0_a when the vehicle is at halt, and then return to step 100. This simultaneously levels the left and right headlamps 1 (1L, 1R)" (col. 5, lines 1-5)

First, in step 132, a signal from the actuator failure detection sensor 20R is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10R of the right-hand side headlamp 1R fails. If NO (no failure), move to step 136, where a signal from the actuator failure detection sensor 18L is compared with an allowable value set in advance, and from this it is determined whether or not the leveling motor 10L of the left-hand side headlamp 10L fails. If NO (no failure) then move to step 108, where the control circuit 16 outputs signals to the motor drivers 18R, 18L so as to control the motors 10R, 10L based on the pitch angle 01 when the vehicle is at a halt calculated in step 106 and stored in the RAM (or the pitch angle 02 at the time of stable running operated in step 128 and stored in the RAM), then returning to step 100. Thus, in a case where neither of the leveling motors 10L, 10R of the left and right headlamps is failing, the left and right headlamps are simultaneously leveled. In addition, in a case where the driving of the motors 10L, 10R is controlled based on the pitch angle 02 at the time of stable running, as is previously described, a flag is set. (col. 6, lines 30-51)

Regarding claim 14: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator (17L) connected to the headlight to effect movement thereof in a first direction and a second actuator (17R) connected to the

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headlight to effect movement thereof in a second direction different from the first direction.

Regarding claim 15: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include the first actuator (19) that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlights having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

Regarding claim 17: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include an electronically controlled mechanical actuator.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlights having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a

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magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18-24)

Regarding claim 18: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include a step motor.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlamps having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

Regarding claim 19: The automatic directional control system defined in claim 1, wherein the two or more actuators (17L, 17R) include a servo motor.

"In FIG. 1, reference number 1 (1L, 1R) denotes a pair of left and right headlamps for an automotive vehicle, the headlamps having the same construction. A front lens 4 is mounted in the front opening of a lamp body, so that a lamp space S is provided. In the lamp space S, a parabolic reflector 5 having a bulb 6 as a light source securely inserted therein is supported in such a manner as to be tilted around a horizontal tilt shaft 7 (in FIG. 1, a shaft normal relative to the surface of paper) and the parabolic reflectors 5 are then constructed so as to be tilt adjusted by actuators 17 (17L, 17R), respectively. The actuators 17 (17L, 17R) each comprise a stepping motor 10 (10L, 10R) which includes an actuator main body and a motor driver 18 (18L, 18R)." (col. 2, line 65 to col. 3, line 10)

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18-24)

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Regarding claim 23: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a microprocessor (CPU 16).

"The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18-24)

Regarding claim 24. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller (CPU 16).

The CPU 16 calculates vehicle speed depending on data from sensors 12 and calculates vehicle height depending on data from sensors 14, judges whether the headlamps are switched on or off, and output to motor drivers 18 (18L, 18R) a control signal for driving the motors 10 (10L, 10R) a magnitude corresponding to operating pitch angle data. A timer 13 is also connected to the CPU 16." (col. 3, lines 18-24)

Regarding claim 25: The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes at least one position feedback sensor (20L, 20R) capable of providing a position feedback signal (feedback from 10 to 16) associated with at least one of the two or more actuators (17L, 17R).

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Regarding claim 28: The automatic directional control system defined in claim 1, wherein the automatic directional control system further includes memory (Takahashi, 15, Fig. 9).

"Also, a non-volatile memory 15 (such as an electrically erasable EEPROM, or the like) for storing control programs and data values therein [sic] and an oscillator 16 used to generate a clock signal are additionally attached to the microcomputer 10." (page 16, lines 5-9)

Regarding claim 29: The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory (Takahashi, 15, Fig. 9).

"Also, a non-volatile memory 15 (such as an electrically erasable EEPROM, or the like) for storing control programs and data values therein [sic] and an oscillator 16 used to generate a clock signal are additionally attached to the microcomputer 10." (page 16, lines 5-9)

Regarding claim 31: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

"When a two-sensor system is used in which vehicle height sensors are provided on both the front and rear wheels, the vehicle pitch angle is obtained from displacement distances of the vehicle height at the front and rear of the vehicle and a wheel base of the vehicle, or a distance between front and rear axles of the vehicle." (col. 3, lines 48-53)

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Regarding claim 32. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

"When a two-sensor system is used in which vehicle height sensors are provided on both the front and rear wheels, the vehicle pitch angle is obtained from displacement distances of the vehicle height at the front and rear of the vehicle and a wheel base of the vehicle, or a distance between front and rear axles of the vehicle." (col. 3, lines 48-53)

Regarding claim 33: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1-25)

Regarding claim 34: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such

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that the controller is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1-25)

Regarding claim 35: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

"But while the vehicle is running, in order to eliminate disturbance, the CPU 16 is constructed so as to calculate a pitch angle of the vehicle only on condition that the vehicle speed is equal to or higher than a reference value, the acceleration is equal to or lower than a reference value, and this state (in which the vehicle speed is equal to or higher than the reference value and the acceleration is equal to lower than the reference value) continues for a predetermined period of time or longer. For example, when a vehicle is running on a rough road in which disturbance is caused by irregularities on the road surface or the like, the vehicle cannot run at a speed of 30 km/h or higher, and in order to eliminate an abrupt acceleration causing the vehicle posture to be changed, it is proper to limit the acceleration to 0.5 m/s² or lower. Therefore, an abrupt detection

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of an abnormal value and any influence from the detection of an abnormal value are impeded by permitting calculation of a pitch angle of the vehicle to occur only on condition that the state in which the vehicle speed is equal to or higher than 30 km/h and the acceleration is equal to or lower than 0.5 m/s² continues for three seconds or longer. In addition, the CPU 16 determines whether the lighting switch is switched on or off, and it outputs a signal to the motor drivers 18 (18L, 18R) to drive the motors 10 (10L, 10R) only when the lighting switch is switched on." (col. 4, lines 1-25)

Regarding claim 36: The automatic directional control system defined in claim 1, wherein said controller (CPU16) is configured to be responsive to said two or more sensor signals (the output of 12 and 14) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators (17L, 17R) from being operated continuously in response to relatively small variations in the sensed conditions (Takahashi teaches the threshold value with respect to vehicle posture prevents the adjustment of the illumination direction when the vehicle makes sudden stops or starts. The threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3)).

Regarding claim 37: The automatic directional control system defined in claim 1, wherein said controller (4) is configured to be responsive to said two or

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more sensor signals (2 and 3) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions (Takahashi teaches the threshold value with respect to vehicle posture prevents the adjustment of the illumination direction when the vehicle makes sudden stops or starts. The threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3)).

Issue 26: The proposed rejection of claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-42, 44 and 45 are unpatentable over the combination of Toda and Hussman Under 35 U.S.C. § 103(a) (Request at pages 58-61, and claim chart, pages 273-302).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

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2/ The rejection of claims 1, 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-41 as unpatentable over the combination of Toda and Hussman under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 58-61 and claim chart, pages 273-302, is **NOT**

ADOPTED.

It is not agreed that consideration of Toda in view of Hussman presented a reasonable rejection with respect to the amended claims 1-41 of the '034 patent. This rejection will not be applied against these claims for the following reason: Particularly, without the additional teachings of Hussman, Toda is not presented in a different light than it was presented in the prosecution history. As indicated above issue 23, Hussman does not specifically include the teachings identified "a controller ... *only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*" as having the significance of the reasonable likelihood of prevailing with respect to the amended claim 1.

Since Toda does not clearly suggest "... *only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from*

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being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions", and Hussman which is relied upon as the secondary reference for the teaching, does not also clearly demonstrate the details of "*...only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*". Neither Toda nor Hussman teaches a key element of claim 1.

Hussman only teaches:

"The curve-recognition device K is electrically conductively coupled with the switchover device SE and thereby couples the third filter F3 electrically conductively with the regulator R if a difference signal other than zero is fed to it from the subtractor SU. When no difference signal from the subtractor SU is present, the curve-recognition device K switches the switchover device SE so that the first filter F1 is coupled to the regulator R". (col. 3, lines 30-39)

"At the coupling between the switchover device SE and the regulator R, a matching device AE is, here for example, arranged which, upon a switchover by the switchover device SE, adjusts the various nominal values to one another so that discontinuities or jumps in the adjustment and regulation of the illumination range are avoided". (col. 4, lines 6-12)

Therefore, the combination of Toda in view of Hussman do not result the lacking limitation "*... only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the*

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sensed conditions” as called for in claim 1. Thus, the rejection based on Toda in view of Hussman for claim 1 is not adopted.

Claims 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-41 depend upon claim 1. Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2, 4-6, 9-13, 17, 18, 20-22, 24, 25, 28, 29, 36-41 are also not adopted.

Issue 27: The proposed rejection of claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a) (Request at pages 61-63, and claim chart, pages 303-344).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are unpatentable over the combination of Okuchi et al. and Uchida under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 61-63, and claim chart, pages 303-344, is **ADOPTED with modifications to the rationale in support thereof.**

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Claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are rejected under 35 U.S.C. § 103(a) as being unpatentable over the combination of Okuchi et al. and Uchida.

Regarding claim 1: Okuchi discloses an automatic directional control system (Fig. 1) for a vehicle headlight (30L, 30R) comprising:

"In a vehicle headlight optical axis automatic adjusting system, a pitch angle in the longitudinal direction of a vehicle is calculated from a signal of a height sensor." (Abstract)

two or more sensors (11F, 11R) that are each adapted to generate a signal (output of 11F, 11R) that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." , (col. 4, line 58 to col. 5, line 8)

a controller (20) that is responsive to said two or more sensor signals (output of 11F, 11R) for generating at least one output signal (output of 20);

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and two or more actuators (35L, 35R) each being adapted to be connected to the headlight (30L, 30R) to effect movement thereof in accordance with said at least one output signal (the output signal of 20).

However, Okuchi does not specifically disclose *“only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions”* as required in claim 1.

Uchida teaches a vehicle lamp illumination directional control device which detects both the posture and speed of a vehicle and adjusts the illumination direction of a vehicle lamp so that the illumination direction can always be kept in a predetermined direction (page 1, lines 3-7). Uchida discloses that signals to the drive means are over-ridden when acceleration is not above a given threshold, such as when the vehicle is running over a rough road, to prevent excessive adjustment of the illumination direction.

It would have been obvious to one of ordinary skill in the art to have utilized the teachings of Uchida in Okuchi's automatic adjusting system as a mere application of a known technique to a known device ready for improvement to yield predictable results. One of ordinary skill in the art would readily predict that the device would function to detect both the posture and speed of a vehicle and adjusts the illumination direction of a vehicle lamp so

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that the illumination direction can always be kept in a predetermined direction, and, thus, the combination would function predictably.

Regarding claim 2: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generate a signal that is representative of the road speed of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"FIG. 20 is a timing diagram showing a transition state of the rear height value measured by the height sensor 11 according to a change in the vehicle speed [km/h] when the vehicle changes from the state where the vehicle is stopped on a flat place, an acceleration mode, and to a constant speed driving mode". (col. 15, lines 16-21)

Regarding claim 4: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generates a signal that is representative of a rate of change of pitch of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided

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between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s^2]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 6, lines 6 to 14)

Regarding claim 5: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generates a signal that is representative of the suspension height of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"FIG. 19 is a timing diagram showing a transition state of a displacement [mm] in each of the rear height value measured by the height sensor 11 according to a change in the vehicle speed [km], a measured front height based on the measured rear height, and a measured front height for comparison. The vehicle speed changes in accordance with the order of a state where the vehicle is stopped riding on a block or the like, acceleration, constant speed driving, deceleration, and a state where the vehicle is stopped on a flat place.

In FIG. 19, in the initial vehicle stop mode, a state where the rear suspension contracts when the vehicle is stopped riding on a block or the like is sensed and the measured rear height is obtained. After that, the front height value is calculated based on the displacement in the measured rear height, so that the measured front height includes an error and is largely deviated

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from the actual measured front height. An error accordingly occurs in calculation of the pitch angle of the vehicle body. When the optical axis direction of the headlight 30 is adjusted based on the pitch angle, the direction is deviated from a proper angle and glare may be given to an oncoming vehicle or the like." (col. 14, line 61 to col. 15, line 3)

Regarding claim 6: The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor (11F) and a second sensor (11R).

Regarding claim 8: The automatic directional control system defined in claim 6, wherein said first sensor (11F) is physically separate from said second sensor (11R).

Regarding claim 9: The automatic directional control system defined in claim 1, further comprising one or more additional sensors (12, 13, 14) for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

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Regarding claim 10: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14, Fig. 18) generate a signal that is representative of the rate of change of road speed of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 12: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14) generate a signal that is representative of the rate of change of pitch of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 13: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14) generate a signal that is representative of a suspension height of the vehicle.

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"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 14: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator (35L) connected to the headlight to effect movement thereof in a first direction and a second actuator (35R) connected to the headlight to effect movement thereof in a second direction different from the first direction.

Regarding claim 15: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include the first actuator (35L) that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow.

The movable member 34 is driven in the back and forth directions by the actuator 35L (35R) so that the reflector 32 is vertically inclined about the end of the supporting member 33 as a fulcrum only by an actuator driving angle (target optical axis direction adjusting angle) θ_a which will be described hereinafter, thereby adjusting the optical axis direction of the headlight 30L (30R). The optical axis direction of the headlight 30L (30R) is initially set on the assumption that one driver is on the vehicle." (col. 5, lines 24-40)

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Regarding claim 17: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include an electronically controlled mechanical actuator.

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 to 15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24 to 33)

Regarding claim 18: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include a step motor.

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 to 15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24 to 33)

Regarding claim 19: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include a servo motor.

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"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11-15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24-33)

Regarding claim 23: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) includes a microprocessor (CPU 21).

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 - 15)

Regarding claim 24. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) includes a programmable electronic controller.

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 - 15)

Regarding claim 28: The automatic directional control system defined in claim 1, wherein the automatic directional control system (20) further includes memory (EEPROM 29, Fig. 8).

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"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20." (col. 12, lines 12-18)

Regarding claim 29: The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory (EEPROM 29, Fig. 8).

"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20." (col. 12, lines 12-18)

Regarding claim 30: The automatic directional control system defined in claim 28, wherein the memory (EEPROM 29, Fig. 8) is configured to store predetermined reference position associated with the headlight.

"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20. The system error information denotes factors exerting influence on the calculation of the inclination angle, such as an installation error of the vehicle 0 height sensor 11 to the vehicle, an error of spring constants of the front and rear suspensions, a weight error due to variation in the specifications of the vehicle, a positional error of the center of gravity, and the like. The control routine shown in FIG. 14 is repeatedly executed every 5 predetermined time by the CPU 21." (col. 12, lines 12-26)

Regarding claim 31: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such

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that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

Regarding claim 32. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [kin/hi]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [kin/hi]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as -2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak

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filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 33: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

"In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [km/h]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 34: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency

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changes in the suspension height of the vehicle that are a result of bumps in a road.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

"In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [kin/hi]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [kin/hi]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 35: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

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Regarding claim 36: The automatic directional control system defined in claim 1, wherein said controller (20) is configured to be responsive to said two or more sensor signals (11F, 11R) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators (35L, 35R) from being operated continuously in response to relatively small variations in the sensed conditions (Uchida teaches adjusting the illumination direction of a vehicle lamp so that the illumination direction can always be kept in a predetermined direction (page 1, lines 3-7) and the signals to the drive means are over-ridden when acceleration is not above a given threshold, such as when the vehicle is running over a rough road, to prevent excessive adjustment of the illumination direction).

Regarding claim 37: The automatic directional control system defined in claim 1, wherein said controller (20) is configured to be responsive to said two or more sensor signals (11F, 11R) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions (Uchida teaches adjusting the illumination direction of a vehicle lamp so that the illumination direction can always be kept in a predetermined direction (page 1, lines 3-7) and the

signals to the drive means are over-ridden when acceleration is not above a given threshold, such as when the vehicle is running over a rough road, to prevent excessive adjustment of the illumination direction).

Issue 28: The proposed rejection of claims 1, 2, 4-6, 9-13, 15-18, 20-22, 24, 25, 28, 29, 33-35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a) (Request at pages 63-66, and claim chart, pages 345-387).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are unpatentable over the combination of Okuchi et al. and Takahashi under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 63-66, and claim chart, pages 345-387, is **ADOPTED with modifications to the rationale in support thereof.**

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Claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are rejected under 35 U.S.C. § 103(a) as being unpatentable over the combination of Okuchi et al. and Takahashi.

Regarding claim 1: Okuchi discloses an automatic directional control system (Fig. 1) for a vehicle headlight (30L, 30R) comprising:

"In a vehicle headlight optical axis automatic adjusting system, a pitch angle in the longitudinal direction of a vehicle is calculated from a signal of a height sensor." (Abstract)

two or more sensors (11F, 11R) that are each adapted to generate a signal (output of 11F, 11R) that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." , (col. 4, line 58 to col. 5, line 8)

a controller (20) that is responsive to said two or more sensor signals (output of 11F, 11R) for generating at least one output signal (output of 20);

and two or more actuators (35L, 35R) each being adapted to be connected to the headlight (30L, 30R) to effect movement thereof in accordance with said at least one output signal (the output signal of 20).

However, Okuchi does not specifically disclose "*only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*" as required in claim 1.

Takahashi teaches a threshold value with respect to vehicle posture prevents the adjustment of the illumination direction when the vehicle makes sudden stops or starts. A threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3).

It would have been obvious to one of ordinary skill in the art to have utilized the teachings of Takahashi in Okuchi's automatic adjusting system as a mere application of a known technique to a known device ready for improvement to yield predictable results. One of ordinary skill in the art would readily predict that the device would function to prevent the adjustment of the

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illumination direction when the vehicle makes sudden stops or starts, and, thus, the combination would function predictably.

Regarding claim 2: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generate a signal that is representative of the road speed of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"FIG. 20 is a timing diagram showing a transition state of the rear height value measured by the height sensor 11 according to a change in the vehicle speed [km/h] when the vehicle changes from the state where the vehicle is stopped on a flat place, an acceleration mode, and to a constant speed driving mode". (col. 15, lines 16-21)

Regarding claim 4: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generates a signal that is representative of a rate of change of pitch of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided

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between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 6, lines 6 to 14)

Regarding claim 5: The automatic directional control system defined in claim 1, wherein at least one of said two or more sensors (11F, 11R) further generates a signal that is representative of the suspension height of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

"FIG. 19 is a timing diagram showing a transition state of a displacement [mm] in each of the rear height value measured by the height sensor 11 according to a change in the vehicle speed [km], a measured front height based on the measured rear height, and a measured front height for comparison. The vehicle speed changes in accordance with the order of a state where the vehicle is stopped riding on a block or the like, acceleration, constant speed driving, deceleration, and a state where the vehicle is stopped on a flat place.

In FIG. 19, in the initial vehicle stop mode, a state where the rear suspension contracts when the vehicle is stopped riding on a block or the like is sensed and the measured rear height is obtained. After that, the front height value is calculated based on the displacement in the measured rear height, so that the measured front height includes an error and is largely deviated

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from the actual measured front height. An error accordingly occurs in calculation of the pitch angle of the vehicle body. When the optical axis direction of the headlight 30 is adjusted based on the pitch angle, the direction is deviated from a proper angle and glare may be given to an oncoming vehicle or the like." (col. 14, line 61 to col. 15, line 3)

Regarding claim 6: The automatic directional control system defined in claim 1, wherein said two or more sensors include a first sensor (11F) and a second sensor (11R).

Regarding claim 8: The automatic directional control system defined in claim 6, wherein said first sensor (11F) is physically separate from said second sensor (11R).

Regarding claim 9: The automatic directional control system defined in claim 1, further comprising one or more additional sensors (12, 13, 14) for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of steering angle of the vehicle, a rate of change of pitch of the vehicle, a suspension height, or a rate of change of suspension height of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

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Regarding claim 10: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14, Fig. 18) generate a signal that is representative of the rate of change of road speed of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 12: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14) generate a signal that is representative of the rate of change of pitch of the vehicle.

"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 13: The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors (12, 13, 14) generate a signal that is representative of a suspension height of the vehicle.

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"The various sensor signals from the wheel speed sensor 12 and the like are used for determining the mode of the vehicle, such as stop mode, acceleration mode, deceleration mode, and constant speed mode" (col. 5, lines 20-23).

"The various sensor signals from the vehicle speed sensor 12, the right-wheel speed sensor 13, the left-wheel speed sensor 14, and the like are used to determine a driving mode of the vehicle such as stop mode, acceleration or deceleration mode, and constant speed driving (stable driving) mode, and to determine whether the vehicle is in a tuning state or not." (col. 15, lines 49-55)

Regarding claim 14: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured to include the first actuator (35L) connected to the headlight to effect movement thereof in a first direction and a second actuator (35R) connected to the headlight to effect movement thereof in a second direction different from the first direction.

Regarding claim 15: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include the first actuator (35L) that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow.

The movable member 34 is driven in the back and forth directions by the actuator 35L (35R) so that the reflector 32 is vertically inclined about the end of the supporting member 33 as a fulcrum only by an actuator driving angle (target optical axis direction adjusting angle) θ_a which will be described hereinafter, thereby adjusting the optical axis direction of the headlight 30L (30R). The optical axis direction of the headlight 30L (30R) is initially set on the assumption that one driver is on the vehicle." (col. 5, lines 24-40)

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Regarding claim 17: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include an electronically controlled mechanical actuator.

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 to 15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24 to 33)

Regarding claim 18: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include a step motor.

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 to 15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24 to 33)

Regarding claim 19: The automatic directional control system defined in claim 1, wherein the two or more actuators (35L, 35R) include a servo motor.

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"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 to 15)

"As shown in FIG. 2, the headlight 30L (30R) includes a lamp 31, a reflector 32 for fixing the lamp 31, a supporting member 33 of a rod shape for supporting the reflector 32 swingably in the directions shown by the arc arrow, a movable member 34 having also a rod shape, for supporting the reflector 32, and the actuator 35L (35R) such as a stepping motor or a DC motor for driving the movable member 34 in the directions shown by the double-headed arrow." (col. 5, lines 24 to 33)

Regarding claim 23: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) includes a microprocessor (CPU 21).

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 - 15)

Regarding claim 24. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) includes a programmable electronic controller (21-24).

"The ECU 20 is a logical operating circuit comprising a CPU 21 as a known central processing unit, a ROM 22 in which control programs are stored, a RAM 23 for storing various data, a B/U (back-up) RAM 24, an input/output circuit 25, and a bus line 26 connecting these elements." (col. 5, lines 11 - 15)

Regarding claim 28: The automatic directional control system defined in claim 1, wherein the automatic directional control system (20) further includes memory (EEPROM 29, Fig. 8).

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"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20." (col. 12, lines 12-18)

Regarding claim 29: The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory (EEPROM 29, Fig. 8).

"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20." (col. 12, lines 12-18)

Regarding claim 30: The automatic directional control system defined in claim 28, wherein the memory (EEPROM 29, Fig. 8) is configured to store predetermined reference position associated with the headlight.

"In this embodiment, as shown by a dotted line in FIG. 8, a non-volatile rewritable memory such as an EEPROM 29 is provided as a storing medium in which the system error ' information is stored in advance and the EEPROM 29 is housed in the ECU 20. The EEPROM 29 may be externally connected to the ECU 20. The system error information denotes factors exerting influence on the calculation of the inclination angle, such as an installation error of the vehicle 0 height sensor 11 to the vehicle, an error of spring constants of the front and rear suspensions, a weight error due to variation in the specifications of the vehicle, a positional error of the center of gravity, and the like. The control routine shown in FIG. 14 is repeatedly executed every 5 predetermined time by the CPU 21." (col. 12, lines 12-26)

Regarding claim 31: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such

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that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

Regarding claim 32. The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

"Referring first to Fig. 1, a front (front-wheel) height sensor 11F is attached to a front suspension provided between a front axle and a vehicle chassis on a driver's seat side or a front passenger seat side. A rear (rear-wheel) height sensor 11R is attached to a rear suspension provided between the rear axle and the vehicle chassis on the driver's seat side or the rear passenger seat side. A front height value (a displacement of the vehicle height on the front wheel side) HF and a rear height value (a displacement of the vehicle height on the rear wheel side) HR as relative displacements (displacements of the vehicle height) between the respective axles on the front and rear wheel sides and the vehicle chassis supplied from the height sensors 11F and 11R, and various sensor signals of wheel speed pulses and the like from a wheel speed sensor 12 which is mounted as a vehicle speed sensor on the vehicle side and is used for known TRC and ABS controls and the like are supplied to an ECU (Electronic Control Unit) 20." (col. 4, line 58 to col. 5, line 8)

In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [kin/hi]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is 5 allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [kin/hi]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as -2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak

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filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 33: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) is programmed to be responsive to changes in the suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

"In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [km/h]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 34: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the controller (20) is programmed to be responsive to changes in the

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suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

"In the diagram of FIG. 3, the filter A corresponding to the stop mode is used when the vehicle speed V is lower than a few km/h (for example, 2 [km/h]). When the vehicle is stopped, a large change in the pitch angle due to loading, unloading, or the like is expected. No filtering or very weak filtering is therefore performed so that the actuator is allowed to respond quickly to the change in the pitch angle.

On the other hand, when the vehicle speed v is equal to or larger than a few km/h (for example, 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V exceeds a preset threshold (such as ± 2 [m/s²]), the filter B corresponding to the acceleration mode or the deceleration mode is used. Since the change in the pitch angle is large, no filtering or very weak filtering is performed so that the actuator is allowed to respond quickly to the change in the pitch angle." (col. 5, line 66- col. 6, line 14)

Regarding claim 35: The automatic directional control system defined in claim 1, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

"When the vehicle speed V is equal to or higher than a few km/h (such as 2 [km/h]) and the acceleration dV/dt obtained by differentiating the vehicle speed V is lower than the preset threshold (for example, ± 2 [m/s²]), the filter C corresponding to the constant speed mode is used. Since it is generally expected that the pitch angle does not largely change, strong filtering is performed so as to remove high frequency components of a vibration at the time of driving and the change in the pitch angle due to unevenness of the road surface, thereby preventing the actuator from responding." (col. 6, lines 29-38)

Regarding claim 36: The automatic directional control system defined in claim 1, wherein said controller (20) is configured to be responsive to said two or more sensor signals (11F, 11R) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators (35L, 35R) from being operated continuously in response to relatively small variations in the sensed conditions (Takahashi teaches the threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3)).

Regarding claim 37: The automatic directional control system defined in claim 1, wherein said controller (20) is configured to be responsive to said two or more sensor signals (11F, 11R) for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of the two or more actuators from being operated unduly frequently in response to relatively small variations in the sensed conditions (Takahashi teaches the

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threshold value with respect to time may be set in detection of the road gradient, and only when the amount of variations in the detection signal of the vehicle posture exceed a given reference value and such excessive state continues for a time longer than the set threshold time will the illumination direction be adjusted (page 9, line 16 to page 10, line 3)).

Issue 29: The proposed rejection of claims 1, 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a) (Request at pages 66-69, and claim chart, pages 388-425).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1, 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 29, 33, 35, 37-42, 44 and 45 are unpatentable over the combination of Okuchi et al. and Hussman under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 66-69, and claim chart, pages 388-425, is **NOT ADOPTED.**

It is not agreed that consideration of Okuchi in view of Hussman presented a reasonable rejection with respect to the amended claims 1-41 of

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the '034 patent. This rejection will not be applied against these claims for the following reason: Particularly, without the additional teachings of Hussman, Okuchi is not presented in a different light than it was presented in the prosecution history. As indicated above issue 23, Hussman does not specifically include the teachings identified “a controller ... *only when said at least one of the two or more sensor signals changes by more than a **predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions***” as having the significance limitation with respect to the amended claim 1.

Since Okuchi does not clearly suggest “... *only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*”, and Hussman which is relied upon as the secondary reference for the teaching, does not also clearly demonstrate the details of “...*only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or*

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unduly frequently in response to relatively small variations in the sensed conditions". Neither Okuchi nor Hussman teaches a key element of claim 1.

Hussman only teaches:

"The curve-recognition device K is electrically conductively coupled with the switchover device SE and thereby couples the third filter F3 electrically conductively with the regulator R if a difference signal other than zero is fed to it from the subtractor SU. When no difference signal from the subtractor SU is present, the curve-recognition device K switches the switchover device SE so that the first filter FI is coupled to the regulator R". (col. 3, lines 30-39)

"At the coupling between the switchover device SE and the regulator R, a matching device AE is, here for example, arranged which, upon a switchover by the switchover device SE, adjusts the various nominal values to one another so that discontinuities or jumps in the adjustment and regulation of the illumination range are avoided". (col. 4, lines 6-12)

Therefore, the combination of Okuchi in view of Hussman do not result the lacking limitation "*... only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*" as called for in claim 1. Thus, the rejection based on Okuchi in view of Hussman for claim 1 is not adopted.

Claims 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 29, 33-35, 37-41 depend upon claim 1. Since the proposed rejection for claim 1 was not adopted; therefore,

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the proposed rejection for dependent claims 2, 4-6, 9-13, 15-18, 20-22, 25, 28, 33-35, 37-41 are also not adopted.

Issue 30: The proposed rejection of claims 1-13, 20, 22, 24-26, 28, 29, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a) (Request at pages 69-71 and claim chart, pages 426-460).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42-45.

2/ The rejection of claims 1-13, 20, 22, 24-26, 28, 29, 37, 38 and 41 as unpatentable over the combination of Gotoh and Uchida under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 69-71 and claim chart, pages 426-460, is **NOT ADOPTED**.

This rejection will not be applied against these claims for the following reason:

Independent claim 1 now required:

“two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than

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a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions; and

said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal".

Gotoh only seen disclosed in Fig. 3 two or more sensors (21, 22, 23) and a controller (ECU 10). However, there are no actuators disclosed in Gotoh. And while Uchida does teach in Fig. 1 two or more sensors (i.e, 2, 7), a controller (3) and actuator (4). However, claim 1 now required "**two or more actuators**". Uchida Fig. 1 only shows one actuator (4) connected to the headlight (5) to effect movement thereof in accordance with the output signal (the output of 3a, 3b). Thus, the proposed rejection of claim 1 fails to persuasively show any teaching of Gotoh in view of Uchida corresponding to the feature of "**two or more actuators that each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal**" of claim 1. The references put forth in the request, Gotoh and Uchida, are not seen to teach the amendatory subject matter of independent claim 1.

Claims 2-13, 20, 22, 24-26, 28, 29, 37, 38, 41 depend upon claim 1.

Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2-13, 20, 22, 24-26, 28, 29, 37, 38, 41 are also not adopted.

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Issue 31: The proposed rejection of claims 1-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a) (Request at pages 71-74 and claim chart, pages 461-495).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42-45.

2/ The rejection of claims 1-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37, 38 and 41 as unpatentable over the combination of Gotoh and Takahashi under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 71-74 and claim chart, pages 461-495, is **NOT**

ADOPTED.

This rejection will not be applied against these claims for the following reason:

Independent claim 1 now required:

“two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle, said sensed conditions including at least steering angle and pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions; and

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said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal".

Gotoh only seen disclosed in Fig. 3 two or more sensors (21, 22, 23) and a controller (ECU 10). However, there are no actuators disclosed in Gotoh. Thus, Gotoh, is not seen to teach the amendatory subject matter of independent claim 1. Furthermore, Requester does not provide a detail explanation of the pertinency and manner of combining actuators of Takahashi to the device of Gotoh. Requester provides no motivation/suggestion or convincing line of reasoning to support the substitution of Gotoh and Takahashi. Thus, the rejection of claim 1 as unpatentable over the combination of Gotoh and Takahashi is not accepted.

Claims 2-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37, 38, 41 depend upon claim 1. Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2-12, 14, 16-18, 20-22, 24-26, 28, 29, 33, 34, 37, 38, 41 are also not adopted.

Issue 32: The proposed rejection of claims 1-13, 24, 26, 28, 29, 37, 38 and 41-45 are unpatentable over the combination of Gotoh and Hussman under 35 U.S.C. § 103(a) (Request at pages 74-76, and claim chart, pages 496-522).

1/ As noted above, this Office action is based on claims 1-5 under reexamination as amended on 4/27/2012 and newly added claims 6-41 that accompanied the amendment (see MPEP 2221). In the amendment filed 4/27/2012, there are no claims 42, 44 and 45.

2/ The rejection of claims 1-13, 24, 26, 28, 29, 37, 38 and 41 are unpatentable over the combination of Gotoh et al. and Hussman under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 74-76, and claim chart, pages 496-522, is **NOT ADOPTED**.

It is not agreed that consideration of Gotoh in view of Hussman presented a reasonable rejection with respect to the amended claims 1-41 of the '034 patent. This rejection will not be applied against these claims for the following reason: Particularly, without the additional teachings of Hussman, Gotoh is not presented in a different light than it was presented in the prosecution history. As indicated above issue 23, Hussman does not specifically include the teachings identified "a controller ... *only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first*

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one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions" as having the significance limitation with respect to the amended claim 1.

Since Gotoh does not clearly suggest "... *only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*", and Hussman which is relied upon as the secondary reference for the teaching, does also not clearly demonstrate the details of "...*only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*". Neither Gotoh nor Hussman teaches a key element of claim 1.

Hussman only teaches:

"The curve-recognition device K is electrically conductively coupled with the switchover device SE and thereby couples the third filter F3 electrically conductively with the regulator R if a difference signal other than zero is fed to it from the subtractor SU. When no difference signal from the subtractor SU is present, the curve-recognition device K switches the switchover device SE so that the first filter F1 is coupled to the regulator R". (col. 3, lines 30-39)

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"At the coupling between the switchover device SE and the regulator R, a matching device AE is, here for example, arranged which, upon a switchover by the switchover device SE, adjusts the various nominal values to one another so that discontinuities or jumps in the adjustment and regulation of the illumination range are avoided". (col. 4, lines 6-12)

Therefore, the combination of Gotoh in view of Hussman do not result the lacking limitation "*... only when said at least one of the two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in the sensed conditions*" as called for in claim 1. Moreover, Claim 1 now required "**two or more actuators**"; However, there is no actuators disclosed in Gotoh. Thus, the rejection based on Gotoh in view of Hussman for claim 1 is not adopted.

Claims 2-13, 24, 26, 28, 29, 37, 38, 41 depend upon claim 1. Since the proposed rejection for claim 1 was not adopted; therefore, the proposed rejection for dependent claims 2-13, 24, 26, 28, 29, 37, 38, 41 are also not adopted.

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Issue 33: The proposed rejection of claims 17, 19, 21, 23, 26, 30-32 are unpatentable over the combination of Uchida and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) (Request at pages 76-78, and claim chart, pages 523-530).

The rejection of claims 17, 19, 21, 23, 26, 30-32 are unpatentable over the combination of Uchida and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 76-78, and claim chart, pages 523-530, is **NOT ADOPTED.**

Claims 17, 19, 21, 23, 26, 30-32 depend upon claim 1. Since the proposed rejection for claim 1, issue 21 was not adopted; Therefore, the proposed rejection for dependent claims 17, 19, 21, 23, 26, 30-32 are also not adopted.

Issue 34: The proposed rejection of claims 19, 23, 26 and 30-32 (claims 16, 20, 21, 25-27 as amended on 4/27/2012) are unpatentable in view of the combination of Takahashi and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) (Request at pages 78-80, and claim chart, pages 531-536).

The rejection of claims 19, 23, 26 and 30-32 (similar as claims 16, 20, 21, 25-27 as amended on 4/27/2012) are unpatentable in view of the

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combination of Takahashi and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 78-80, and claim chart, pages 531-536, is **ADOPTED**.

Claims 16, 20, 21, 25-27 (as amended on 4/27/2012) are rejected under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of the admitted prior art described in the '034 patent specification.

Pages 78-80 and claim chart, pages 531-536 of the request for reexamination is hereby incorporated by reference for the Requester's explanation of the proposed rejection.

Issue 35: The proposed rejection of claims 17-21, 23-26, 30-32 are unpatentable over the combination of Hussman and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) (Request at pages 80-82, and claim chart, pages 537-548).

The rejection of claims 17-21, 23-26, 30-32 are unpatentable over the combination of Hussman and the admitted prior art described in the '034 patent specification under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 80-82, and claim chart, pages 537-548, is **NOT ADOPTED**.

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Claims 17-21, 23-26, 30-32 depend upon claim 1. Since the proposed rejection for claim 1, issue 23 was not adopted; Therefore, the proposed rejection for dependent claims 17-21, 23-26, 30-32 are also not adopted.

Issue 36: The proposed rejection of claim 27 is unpatentable over the combination of Uchida and Wassen under 35 U.S.C. § 103(a) (Request at pages 82-84, and claim chart, page 549).

The rejection of claim 27 is unpatentable over the combination of Uchida and Wassen under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 82-84, and claim chart, page 549, is **NOT ADOPTED**.

Claim 27 depends upon claim 1. Since the proposed rejection for claim 1, issue 21 was not adopted; Therefore, the proposed rejection for dependent claim 27 is also not adopted.

Issue 37: The proposed rejection of claim 27 (similar with claim 22 as amended on 4/27/2012) are unpatentable in view of the combination of Takahashi and Wassen under 35 U.S.C. § 103(a) (Request at pages 84-85, and claim chart, page 550).

The rejection of claim 27 (similar as claim 22 as amended on 4/27/2012) is unpatentable in view of the combination of Takahashi and Wassen under 35

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U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 84-85, and claim chart, page 550, is **ADOPTED**.

Claim 22 is rejected under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of Wassen.

Pages 84-85 and claim chart, page 550 of the request for reexamination is hereby incorporated by reference for the Requester's explanation of the proposed rejection. Two or more actuators are seen in Fig. 9, 19 and 19', of Takahashi.

Issue 38: The proposed rejection of claim 27 is unpatentable over the combination of Hussman and Wassen under 35 U.S.C. § 103(a) (Request at pages 85-87, and claim chart, page 551).

The rejection of claim 27 is unpatentable over the combination of Hussman and Wassen under 35 U.S.C. § 103(a) were proposed by the requester in the request for reexamination, pages 85-87, and claim chart, page 551, is **NOT ADOPTED**.

Claim 27 depends upon claim 1. Since the proposed rejection for claim 1, issue 23 was not adopted; therefore, the proposed rejection for dependent claim 27 is also not adopted.

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PROPOSED REJECTION OF PROPOSED CLAIMS 12 TO 16 UNDER 35 U.S.C. § 314(A)

As noted above, all subsequent reexamination prosecution and examination will be on the basis of claims 1-41 as amended in the proposed amendment filed on 4/27/2012. Thus, the proposed rejection with respect to claims 12-16 under 35 U.C.C 314(A) has been considered but is moot in view of the amendment filed on 4/27/2012.

PROPOSED REJECTION OF PROPOSED CLAIMS 12 TO 16 UNDER 35 U.S.C. § 112.

As noted above, all subsequent reexamination prosecution and examination will be on the basis of claims 1-41 as amended in the proposed amendment filed on 4/27/2012. Thus, the proposed rejection with respect to claims 12-16 under 35 U.C.C 314(A) has been considered but is moot in view of the amendment filed on 4/27/2012.

Allowable Subject Matter

Claims 3, 7, 11 and 38-41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Service of Papers

After the filing of a request for reexamination by a third party requester, any document filed by either the patent owner or the third party requester must be served on the other party (or parties where two or more third party requester proceedings are merged) in the reexamination proceeding in the manner provided in 37 CFR 1.248. See 37 CFR 1.550(t).

Extensions of Time

Extensions of time under 37 CFR 1.136(a) will not be permitted in inter partes reexamination proceedings because the provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Additionally, 35 U.S.C. 314(c) requires that inter partes reexamination proceedings "will be conducted with special dispatch" (37 CFR 1.937). Patent owner extensions of time in inter partes reexamination proceedings are provided for in 37 CFR 1.956. Extensions of time are not available for third party requester comments, because a comment period of 30 days from service of patent owner's response is set by statute 35 U.S.C. 314(b)(3). Time periods may be extended only upon a strong showing of sufficient cause.

Notification of Concurrent Proceedings

The patent owner is reminded of the continuing responsibility under 37 CFR 1.985(a), to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving the '034 patent throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP 2686 and 2686.04.

Complete Response Reminder

In order to ensure full consideration of any amendments, affidavits or declarations, or other documents as evidence of patentability, such documents must be submitted in response to this Office action. Submissions after the next Office action, which is intended to be an Action Closing Prosecution (ACP), will be governed by 37 CFR 1.1 16(b) and (d), which will be strictly enforced.

Service of Papers

Any paper filed by either the patent owner or the third party requester must be served on the other party in the reexamination proceeding in the manner provided by 37 CFR 1.248. See 37 CFR 1.903 and MPEP 2666.06.

Amendments in Reexamination Procedures

Patent owner is notified that any proposed amendment to the specification and/or claims in this reexamination proceeding must comply with 37 CFR 1.530(d)-(j), must be formally presented pursuant to 37 CFR 1.52(a) and (b), and must contain any fees required by 37 CFR 1.20(c). Amendments in an inter partes reexamination proceeding are made in the same manner that amendments in an ex parte reexamination are made. MPEP 2666.01. See MPEP 2250 for guidance as to the manner of making amendments in a reexamination proceeding.

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All correspondence relating to this inter partes reexamination proceeding should be directed:

By Mail to: Mail Stop Inter Partes Reexam
Attn: Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand: Customer Service Window
Attn: Central Reexamination Unit
Randolph Building, Lobby Level
401 Dulany Street
Alexandria, VA 22314

By EFS-Web:
Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at

<https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>

EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning" process is complete.

Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.


/My-Trang Nu Ton/

Primary Examiner, CRU 3992

Conferees:

/Margaret Rubin/

Primary Examiner CRU 3992

ANDREW J. FISCHER 
Supervisory Patent Reexamination Specialist
CRU -- Art Unit 3992

Index of Claims



Application/Control No.

95/001,621, 90/011,011

Examiner

MY-TRANG TON

Applicant(s)/Patent under Reexamination

7,241,034

Art Unit

3992

√	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted


N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date			
Final	Original	5/24/12			
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	2	v			
	3	0			
	4	v			
	5	v			
	6	v			
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Reexamination 	Application/Control No.	Applicant(s)/Patent Under Reexamination
	95/001,621, <i>90/011,011</i> Certificate Date	7,241,034 Certificate Number

Requester	Correspondence Address:	<input type="checkbox"/> Patent Owner	<input checked="" type="checkbox"/> Third Party
Kenyon & Kenyon, LLP One Broadway New York, NY 10004			

LITIGATION REVIEW <input checked="" type="checkbox"/>	(examiner initials) mt	5/23/12 (date)
Case Name		Director Initials
I U.S. District - Texas Eastern (Tyler) 6:10CV78 Balther Technologies, Llc v. American Honda Motor Co Inc et A		<i>CGJ for I.Y.</i>

COPENDING OFFICE PROCEEDINGS	
TYPE OF PROCEEDING	NUMBER
1. 90/011011	
2.	
3.	
4.	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
7,241,034) Art Unit: 3992
)
Applications No. 95/001,621 & 90/011,011) Examiner: MY-TRANG N. TON
)
Filed: 05/16/2011) Atty. Docket No.:
) SVIPGP109RE
For: AUTOMATIC DIRECTIONAL CONTROL)
SYSTEM FOR VEHICLE) Date: 07/26/2012
HEADLIGHTS)
_____)

AMENDMENT E

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Examiner:

In response to the Office Action mailed 6/29/2012 ("Office Action"), please enter the following amendments believed to place the Claims in condition for allowance.

AMENDMENTS TO THE CLAIMS

Amended claims follow:

1. (Cancelled).
2. (Cancelled).
3. (Currently Amended) [The automatic directional control system defined in claim 1] An automatic directional control system for a vehicle headlight, comprising:
two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;
a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and
said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal;
wherein at least one of said two or more sensors generates [a]at least one of said two or more sensor signals that is representative of [the]a rate of change of the steering angle of the vehicle.
4. (Currently Amended) The automatic directional control system defined in claim [1]3, wherein at least one of said two or more sensors generates a signal that is representative of [the]a rate of change of the pitch of the vehicle.

5. (Currently Amended) The automatic directional control system defined in claim [1]3, wherein at least one of said two or more sensors generates a signal that is representative of [the]a suspension height of the vehicle.

6. (New) The automatic directional control system defined in claim 3, wherein said two or more sensors include a first sensor and a second sensor.

7. (New) An automatic directional control system for a vehicle headlight, comprising:

two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and

said two or more actuators each being adapted to be connected to the vehicle headlight to effect movement thereof in accordance with said at least one output signal;

wherein said two or more sensors include a first sensor and a second sensor; and

wherein said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle.

8. (New) The automatic directional control system defined in claim 7, wherein said first sensor is physically separate from said second sensor.

9. (New) The automatic directional control system defined in claim 7, further comprising one or more additional sensors for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of the steering angle of the vehicle, a rate of

change of the pitch of the vehicle, a suspension height of the vehicle, or a rate of change of suspension height of the vehicle.

10. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the road speed of the vehicle.

11. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the steering angle of the vehicle.

12. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the pitch of the vehicle.

13. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the suspension height of the vehicle.

14. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured to include a first actuator connected to the headlight to effect movement thereof in a first direction and a second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.

15. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a first actuator that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

16. (New) The automatic directional control system defined in claim 15, wherein the two or more actuators include a second actuator that is adapted to be connected to the headlight to effect movement thereof in a horizontal direction.

17. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include an electronically controlled mechanical actuator.

18. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a step motor.

19. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a servo motor.

20. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a microstepping motor capable of being operated in fractional step increments.

21. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the headlight is adjustably mounted on the vehicle such that a directional orientation at which a beam of light projects therefrom is capable of being adjusted both up and down relative to a horizontal reference position and left and right relative to a vertical reference position.

22. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that, while in a calibration mode, a directional orientation at which a beam of light projects is capable of being adjusted relative to the vehicle by manual operation of the two or more actuators.

23. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a microprocessor.

24. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller.

25. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes at least one position feedback sensor capable of providing a position feedback signal associated with at least one of the two or more actuators.

26. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes a Hall Effect sensor.

27. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes an optical interrupter.

28. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes memory.

29. (New) The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory.

30. (New) The automatic directional control system defined in claim 28, wherein the memory is configured to store a predetermined reference position associated with the headlight.

31. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

32. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

33. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

34. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

35. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

36. (New) The automatic directional control system defined in claim 7, wherein said controller is configured to be responsive to said two or more sensor signals for generating said at least one output signal only when said at least one of the two or more sensor signals changes by more than the predetermined minimum threshold amount to prevent said at least one of the two or more actuators from being operated continuously in response to said relatively small variations in the at least one of the sensed conditions.

37. (New) The automatic directional control system defined in claim 7, wherein said controller is configured to be responsive to said two or more sensor signals for generating said at least one output signal only when said at least one of the two or more sensor signals changes by more than the predetermined minimum threshold amount to prevent

said at least one of the two or more actuators from being operated unduly frequently in response to said relatively small variations in the at least one of the sensed conditions.

38. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to at least one of said two or more sensor signals to automatically activate one or more vehicle lights that are different than the headlight.

39. (New) The automatic directional control system defined in claim 38, wherein said one or more vehicle lights that are different than the headlight include one or more lights for illuminating a road in front of the vehicle during a turn.

40. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight.

41. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight to extend an angular range of a road surface.

REMARKS

Applicant thanks the Examiner for noting the allowable subject matter. Applicant has incorporated the subject matter of amended Claim 1 (as presented in Applicant's Amendment D2, dated 4/27/2012) into Claims 3 and 7. Furthermore, Applicant has amended the claims such that the remaining dependent claims depend on either Claim 3 or Claim 7. Table 1 shows a summary of Applicant's amendments, relative to Applicant's Amendment D2, dated 4/27/2012.

Table 1

Claim 1 – Cancelled.

Claim 2 - Cancelled.

Claim 3 – Applicant deleted “The automatic directional control system defined in claim 1” and the comma added in Amendment D2. Applicant inserted the subject matter of amended Claim 1 (the subject matter as presented in Amendment D2). Applicant deleted “a” and added “at least one of said two or more sensor” before “signal”. Applicant added an “s” to “signal”. Applicant added “the” before “steering angle”. Applicant deleted “further”, which was added in the Amendment D2.

Claim 4 - Applicant deleted “1” and inserted “3” such that Claim 4 depends on Claim 3. Applicant deleted “further”, which was added in Amendment D2. Applicant added “the” before “pitch”.

Claim 5 - Applicant deleted “1” and inserted “3” such that Claim 5 depends on Claim 3. Applicant deleted “further”, which was added in Amendment D2. Applicant deleted “the” and added “a” before “suspension height of the vehicle”.

Claim 6 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “3” such that Claim 6 depends on Claim 3.

Claim 7 – Applicant inserted the subject matter of amended Claim 1 (the subject matter as presented in Amendment D2), in addition to the subject matter of Claim 6 (as presented in Amendment D2).

Claim 8 – Applicant deleted “6” (which was presented in Amendment D2) and

inserted “7” such that Claim 8 depends on Claim 7.

Claim 9 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 9 depends on Claim 7. Applicant added “of a vehicle” after “suspension height.”

Claim 10 – Same text as Amendment D2.

Claim 11 – Applicant added “the” before “steering angle of the vehicle”.

Claim 12 – Applicant added “the” before “pitch of the vehicle”.

Claim 13 – Same text as Amendment D2.

Claim 14 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 14 depends on Claim 7. Applicant changed “form” to “from”.

Claim 15 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 15 depends on Claim 7.

Claim 16 – Same text as Amendment D2.

Claim 17 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 17 depends on Claim 7.

Claim 18 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 18 depends on Claim 7.

Claim 19 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 19 depends on Claim 7.

Claim 20 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 20 depends on Claim 7.

Claim 21 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 21 depends on Claim 7.

Claim 22 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 22 depends on Claim 7.

Claim 23 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 23 depends on Claim 7.

Claim 24 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 24 depends on Claim 7.

Claim 25 - Applicant deleted “1” (which was presented in Amendment D2) and

inserted “7” such that Claim 25 depends on Claim 7.

Claim 26 – Same text as Amendment D2.

Claim 27 – Same text as Amendment D2.

Claim 28 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 28 depends on Claim 7.

Claim 29 – Same text as Amendment D2.

Claim 30 – Same text as Amendment D2.

Claim 31 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 31 depends on Claim 7.

Claim 32 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 32 depends on Claim 7. Applicant added “a” and deleted “the” before “suspension height”.

Claim 33 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 33 depends on Claim 7. Applicant added “a” and deleted “the” before “suspension height”.

Claim 34 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 34 depends on Claim 7.

Claim 35 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 35 depends on Claim 7.

Claim 36 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 36 depends on Claim 7. Applicant added “the at least one of” before “the sensed conditions”.

Claim 37 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 37 depends on Claim 7. Applicant added “the at least one of” before “the sensed conditions”.

Claim 38 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 38 depends on Claim 7. Also, applicant inserted “to at least one of”.

Claim 39 – Same text as Amendment D2.

Claim 40 - Applicant deleted “1” (which was presented in Amendment D2) and inserted “7” such that Claim 40 depends on Claim 7.

Claim 41 - Applicant deleted "1" (which was presented in Amendment D2) and inserted "7" such that Claim 41 depends on Claim 7.

Applicant believes no fees are due. In the event any fees are due, the Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-4964 (Order No. SVIPGP109RE).

In the event the Examiner believes a telephone conversation would advance prosecution, Applicant invites the Examiner to telephone the undersigned attorney at the number listed below.

Additionally, the undersigned hereby certifies that a true and complete copy of the forgoing Amendment E has been served on Third Party Requestor by mailing said copy on 26 Jul 2012, via First Class Mail, postage prepaid to:

Kenyon & Kenyon, LLP
One Broadway
New York, NY 10004

Respectfully submitted,



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Electronic Acknowledgement Receipt

EFS ID:	13353636
Application Number:	95001621
International Application Number:	
Confirmation Number:	1240
Title of Invention:	Automatic Directional Control System for Vehicle Headlights
First Named Inventor/Applicant Name:	7,241,034
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP109RE
Receipt Date:	26-JUL-2012
Filing Date:	16-MAY-2011
Time Stamp:	20:15:39
Application Type:	inter partes reexam

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	SVIPGP109RE_Amndt_E_vF_07-26-2012.pdf	57906 <small>d623ca3972794b2eb553ea804252de417ec9ec55</small>	no	12

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Litigation Search Report CRU 3999

Reexam Control No. 95/001,621

TO: My Trang Ton
Location: CRU
Art Unit: 3992
Date: 12/06/2012
Merged: 90/011,011

From: Patricia Volpe
Location: CRU 3999
MDE 5D30
Phone: (571) 272-6825
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Search Notes

Litigation search for U.S. Patent Number: 7,241,034

Status (**CLOSED**) 6:10cv78 *Balthert Technologies, Llc v. American Honda Motor Co. Inc. et al*

- 1) I performed a KeyCit Search in Westlaw, which retrieves all history on the patent including any litigation.
- 2) I performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
- 3) I performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
- 4) I performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
- 5) I performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

KEYCITE

US PAT 7241034 AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS, Assignee: Dana Corporation (Jul 10, 2007)

History**Direct History**

=> **1 AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS, US PAT 7241034, 2007 WL 1978614 (U.S. PTO Utility Jul 10, 2007)**

Patent Family

2 AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR A VEHICLE HEADLIGHT USES SENSOR TO GENERATE SIGNAL REPRESENTATIVE OF CONDITION OF VEHICLE, CONTROLLER RESPONSIVE TO SENSOR SIGNAL TO GENERATE OUTPUT SIGNAL AND ACTUATOR TO EFFECT HEADLIGHT MOVEMENT, Derwent World Patents Legal 2003-543647

Assignments

- 3 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 002, (DATE RECORDED: Mar 08, 2010)
- 4 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 002, (DATE RECORDED: Jun 12, 2009)
- 5 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 030, (DATE RECORDED: Feb 22, 2008)
- 6 Action: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Number of Pages: 003, (DATE RECORDED: Feb 06, 2003)

Patent Status Files

- .. Request for Re-Examination, (OG DATE: Jun 29, 2011)
- .. Request for Re-Examination, (OG DATE: Sep 07, 2010)
- .. Patent Suit(See LitAlert Entries),

Docket Summaries

10 BALTHER TECHNOLOGIES, LLC v. AMERICAN HONDA MOTOR CO. INC. ET AL, (E.D.TEX. Mar 08, 2010) (NO. 6:10CV00078), (35 USC 271 PATENT INFRINGEMENT)

Litigation Alert

11 Derwent LitAlert P2010-11-45 (Mar 08, 2010) Action Taken: complaint

Prior Art (Coverage Begins 1976)

- C** 12 ADJUSTABLE HEADLIGHTS, HEADLIGHT ADJUSTING AND DIRECTION SENSING CONTROL SYSTEM AND METHOD OF ADJUSTING HEADLIGHTS, US PAT 5868488 (U.S. PTO Utility 1999)
- C** 13 APPARATUS AND METHOD FOR CONTROLLING LIGHT DISTRIBUTION OF HEADLAMP, US PAT 5660454 Assignee: Toyota Jidosha Kabushiki Kaisha, (U.S. PTO Utility 1997)
- C** 14 APPARATUS AND METHOD FOR CONTROLLING THE LIGHT-RANGE OF MOTOR VEHICLE HEADLIGHTS, US PAT 5193894 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1993)
- C** 15 APPARATUS FOR AUTOMATICALLY ADJUSTING AIMING OF HEADLIGHTS OF AN AUTOMOTIVE VEHICLE, US PAT 5877680 Assignee: Denso Corporation; Toyota Jidosha Kabushiki Kaisha, (U.S. PTO Utility 1999)
- C** 16 APPARATUS FOR CONTROLLING A HEADLIGHT OF A VEHICLE, US PAT 4891559 Assignee: Nippondenso Soken, Inc.; Nippondenso Co., Ltd., (U.S. PTO Utility 1990)
- C** 17 APPARATUS FOR REGULATING THE ILLUMINATION FIELD OF A VEHICLE HEADLIGHT, US PAT 6144159 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2000)
- C** 18 ARRANGEMENT FOR AUTOMATIC HEADLIGHT ADJUSTMENT, US PAT 6231216 Assignee: Dr. Ing. h.c.F. Porsche AG, (U.S. PTO Utility 2001)
- C** 19 AUTOMATIC LEVELING APPARATUS FOR USE WITH AUTOMOBILE HEADLAMPS, US PAT 6183118 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 20 AUTOMATIC LEVELING DEVICE FOR AUTOMOTIVE VEHICLE HEADLAMPS, US PAT 6305823 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 21 AUTOMOTIVE ILLUMINATION SYSTEM, US PAT 4943893 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1990)
- C** 22 CONTINUOUSLY VARIABLE HEADLAMP CONTROL, US PAT 6281632 Assignee: Gentex Corporation, (U.S. PTO Utility 2001)
- C** 23 CORNERING LIGHT SYSTEM FOR TWO-WHEELED VEHICLES, US PAT 4024388 Assignee: Marvin H. Kleinberg, Inc.; Richard Morganstern Inc.; Scholnick, Seymour A., (U.S. PTO Utility 1977)
- C** 24 DEVICE FOR ADJUSTING THE INCLINATION OF AUTOMOBILE HEADLIGHTS, US PAT 4186428 Assignee: Cibie Projecteurs, (U.S. PTO Utility 1980)
- C** 25 DEVICE FOR ADJUSTING THE LEVEL OF A VEHICLE HEADLIGHT, US PAT 5779342 Assignee: Bayerische Motoren Werke Aktiengesellschaft, (U.S. PTO Utility 1998)
- C** 26 DEVICE FOR ADJUSTING AN OBJECT TO ASSUME A PREDETERMINED ANGLE TO A CERTAIN PLANE, US PAT 4217631 (U.S. PTO Utility 1980)
- C** 27 DEVICE FOR ADJUSTING A PRESETTABLE LIGHTING LEVEL OF A HEADLIGHT IN MOTOR VEHICLES, US PAT 5785405 Assignee: Bayerische Motoren Werke, (U.S. PTO Utility 1998)
- C** 28 DEVICE FOR CONTROLLING THE LIGHT WIDTH OF HEADLIGHTS FOR VEHICLES, US

- PAT 5896011 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1999)
- C 29 DEVICE FOR REGULATING LIGHT WIDTH OF HEADLIGHTS FOR VEHICLES, AND VEHICLE PROVIDED THEREWITH, US PAT 6142655 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2000)
- C 30 DIRECTION TURNING DEVICE FOR A HEADLIGHT OF AN AUTOMOBILE, US PAT 5550717 (U.S. PTO Utility 1996)
- C 31 FOCUSING MIRROR CONTROL SYSTEM AND METHOD FOR ADJUSTING SAME, US PAT 6118113 (U.S. PTO Utility 2000)
- C 32 HEAD LAMP DEVICE FOR VEHICLE, US PAT 6010237 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 2000)
- C 33 HEAD LAMP DEVICE FOR VEHICLE, US PAT 5909949 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1999)
- C 34 HEADLAMP, US PAT 5158352 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1992)
- C 35 HEADLAMP DRIVE AND CONTROL APPARATUS, US PAT 4583152 Assignee: Aisin Seiki Kabushiki Kaisha, (U.S. PTO Utility 1986)
- C 36 HEADLAMP FOR MOTOR VEHICLES WITH PROGRAMMABLE LIGHT DISTRIBUTION, US PAT 4868721 (U.S. PTO Utility 1989)
- C 37 HEADLAMP POSITIONING DEVICE, US PAT 5181429 Assignee: Saia AG, (U.S. PTO Utility 1993)
- C 38 HEADLIGHT AIMING AND LIGHT PATTERN TESTING APPARATUS AND METHOD, US PAT 4948249 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1990)
- C 39 HEADLIGHT AIMING APPARATUS, US PAT 5751832 Assignee: Progressive Tool & Industries Co.; Panter Master Controls, Inc., (U.S. PTO Utility 1998)
- C 40 HEADLIGHT AIMING APPARATUS AND DISPLAY, US PAT 5164785 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1992)
- C 41 HEADLIGHT AIMING METHOD USING PATTERN FRAMING, US PAT 5373357 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C 42 HEADLIGHT ARRANGEMENT FOR MOTOR VEHICLE, US PAT 6227691 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 2001)
- C 43 HEADLIGHT ARRANGEMENT FOR VEHICLES, US PAT 4768135 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1988)
- C 44 HEADLIGHT BEAM CONTROL SYSTEM FOR MOTOR VEHICLES, US PAT 4225902 (U.S. PTO Utility 1980)
- C 45 HEADLIGHT CONTROL APPARATUS FOR MOTORCYCLES, US PAT 4870545 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1989)
- C 46 HEADLIGHT FOR VEHICLE, US PAT 4833573 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C 47 HEADLIGHT MOVING APPARATUS FOR A MOTOR VEHICLE, US PAT 5099400 (U.S. PTO Utility 1992)
- C 48 HEIGHT SENSOR AND VEHICULAR HEADLIGHT BEAM AXIS LEVELING APPARATUS,

- US PAT 6234654 Assignee: Denso Corporation, (U.S. PTO Utility 2001)
- C** 49 INFINITELY ADJUSTABLE LEVEL LIGHT, US PAT 3953726 (U.S. PTO Utility 1976)
- C** 50 IRRADIATION DIRECTION CONTROL APPARATUS FOR VEHICULAR LAMP, US PAT 5907196 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1999)
- C** 51 LIGHT DESTRICTION OF HEADLIGHT BEAM, US PAT 4907877 (U.S. PTO Utility 1990)
- C** 52 LIGHT MANAGEMENT SYSTEM FOR A VEHICLE, US PAT 5781105 Assignee: Ford Motor Company, (U.S. PTO Utility 1998)
- C** 53 LIGHTING CONTROL FOR MOTOR VEHICLE LAMPS, US PAT 3634677 Assignee: ROBERT BOSCH GMBH, (U.S. PTO Utility 1972)
- C** 54 LIGHTING DEVICE FOR A VEHICLE, US PAT 6049749 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2000)
- C** 55 LIGHTING DEVICE FOR VEHICLES, US PAT 6293686 Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 2001)
- C** 56 LIGHTING SYSTEM FOR A MOTORCYCLE, US PAT 3939339 (U.S. PTO Utility 1976)
- C** 57 LOAD TRIM COMPENSATING VEHICLE HEADLIGHT DEFLECTION SYSTEM, US PAT 4162424 Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1979)
- C** 58 MAGNETIC COUPLING MECHANISM FOR USE IN AN AUTOMOTIVE VEHICLE, US PAT 5977678 Assignee: UT Automotive Dearborn, Inc., (U.S. PTO Utility 1999)
- C** 59 METHOD AND APPARATUS FOR ADJUSTING THE ORIENTATION OF VEHICLE HEADLIGHTS, US PAT 4204270 Assignee: Societe pour l'Équipement de, (U.S. PTO Utility 1980)
- C** 60 METHOD AND APPARATUS FOR LOCATING A SPECIFIC LOCATION ON A VEHICLE HEADLAMP, US PAT 5331393 Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1994)
- C** 61 METHOD OF MEASURING AND ADJUSTING OPTICAL AXIS OF HEADLIGHT, US PAT 5392111 Assignee: Honda Giken Kogyo Kabushiki Kaisha, (U.S. PTO Utility 1995)
- C** 62 MOTOR VEHICLE LIGHTING SYSTEM HAVING AT LEAST TWO BEND LIGHTING DRIVING LIGHTS, US PAT 6176590 Assignee: Valeo Vision, (U.S. PTO Utility 2001)
- C** 63 MOTOR VEHICLE WITH HEADLAMP TILTING MECHANISM, US PAT 4066886 Assignee: The Lucas Electrical Company Limited, (U.S. PTO Utility 1978)
- C** 64 MOTORCYCLE HEADLIGHT AIMING DEVICE, US PAT 5426571 (U.S. PTO Utility 1995)
- C** 65 MULTIPLE SENSOR INCLINATION MEASURING SYSTEM, US PAT 4549277 Assignee: Brunson Instrument Company, (U.S. PTO Utility 1985)
- C** 66 POSITION CONTROL SYSTEM, US PAT 4310172 Assignee: General Motors Corporation, (U.S. PTO Utility 1982)
- C** 67 ROAD SURFACE-SENSITIVE BEAM PATTERN LEVELING SYSTEM FOR A VEHICLE HEADLAMP, US PAT 4868720 Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1989)
- C** 68 SIDELIGHTING ARRANGEMENT AND METHOD, US PAT 5428512 (U.S. PTO Utility 1995)
- C** 69 STEPPER MOTOR SHAFT POSITION SENSOR, US PAT 4791343 Assignee: Allied-Signal Inc., (U.S. PTO Utility 1988)

- C** 70 SUPPORT FRAME FOR HEADLIGHT AIMING APPARATUS, US PAT 5920386Assignee: Panter Master Controls, Inc.; Progressive Tool & Industries Co., (U.S. PTO Utility 1999)
- C** 71 SWITCHING CONTROL SYSTEM FOR AUTOMATICALLY TURNING HEADLIGHTS OFF AND ON AT INTERSECTIONS, US PAT 6097156 (U.S. PTO Utility 2000)
- C** 72 SYSTEM FOR AUTOMATICALLY ADJUSTING OPTICAL AXIS DIRECTION OF VEHICLE HEADLIGHT, US PAT 6193398Assignee: DENSO Corporation, (U.S. PTO Utility 2001)
- C** 73 SYSTEM FOR SELF-ALIGNING VEHICLE HEADLAMPS, US PAT 5633710Assignee: EGS Inc., (U.S. PTO Utility 1997)
- C** 74 TILTING DEVICE OF VEHICLE HEADLIGHT, US PAT 4916587Assignee: Koito Seisakusho Co., Ltd., (U.S. PTO Utility 1990)
- C** 75 VARIABLE DISTRIBUTION TYPE AUTOMOTIVE HEADLAMP, US PAT 5060120Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1991)
- C** 76 VEHICLE CORNERING LAMP SYSTEM, US PAT 5526242Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1996)
- C** 77 VEHICLE CORNERING LAMP SYSTEM, US PAT 4908560Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1990)
- C** 78 VEHICLE HEADLIGHT AIMING APPARATUS, US PAT 5485265Assignee: Hopkins Manufacturing Corporation, (U.S. PTO Utility 1996)
- C** 79 VEHICLE HEADLIGHT WITH ADJUSTING MEANS FOR DIFFERENT TRAFFIC CONDITIONS, US PAT 5938319Assignee: Robert Bosch GmbH, (U.S. PTO Utility 1999)
- C** 80 VEHICULAR CORNERING LAMP SYSTEM, US PAT 5404278Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1995)
- C** 81 VEHICULAR HEADLAMP PRODUCING LOW BEAM HAVING CUT LINE CONTROLLED IN ACCORDANCE WITH CONDITION OF CURVED ROAD, US PAT 5707129Assignee: Koito Manufacturing Co., Ltd., (U.S. PTO Utility 1998)

US District Court Civil Docket

**U.S. District - Texas Eastern
(Tyler)**

6:10cv78

Balther Technologies, Llc v. American Honda Motor Co. Inc. et al

This case was retrieved from the court on Thursday, November 29, 2012

Date Filed: 03/08/2010	Class Code: CLOSED
Assigned To: Judge Leonard Davis	Closed: Yes
Referred To:	Statute: 35:271
Nature of suit: Patent (830)	Jury Demand: Plaintiff
Cause: Patent Infringement	Demand Amount: \$0
Lead Docket: None	NOS Description: Patent
Other Docket: None	
Jurisdiction: Federal Question	

Litigants

Balther Technologies, Llc
Plaintiff

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American Honda Motor Co. Inc.
Defendant

Honda Motor Company, Ltd.
Defendant

Bmw of North America, Llc
Defendant

Bmw AG
Defendant

Chrysler Group Llc
Defendant

Ferrari North America, Inc.
Defendant

Ferrari S.P.A.
Defendant

General Motors, Llc
Defendant

Hyundai Motor America
Defendant

Hyundai Motor Company
Defendant

Jaguar Land Rover North America, Llc
Defendant

Jaguar Cars Limited
Defendant

Maserati North America Inc
Defendant

Maserati S.P.A.
Defendant

Mercedes-Benz USA, Llc
Defendant

Daimler North America Corporation
Defendant

Daimler AG
Defendant

Mazda Motor of North America, Inc.
Defendant

Mazda Motor Corp.
Defendant

Mitsubishi Motors North America, Inc.
Defendant

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Nissan North America, Inc.
Defendant

Nissan Motor Co., Ltd.
Defendant

Porsche Cars North America, Inc.
Defendant

Dr. Ing. Hc.F. Porsche AG
Defendant

Saab Cars North America, Inc.
Defendant

Toyota Motor North America, Inc.
Defendant

Toyota Motor Sales, U.S.A., Inc.
Defendant

Toyota Motor Corp.
Defendant

Volkswagen Group of America, Inc.
Defendant

Automobili Lamborghini S.P.A.

Defendant

Audi AG
Defendant

Volkswagen AG
Defendant

Ford Motor Company
Defendant

Volvo Cars of North America, Llc
Defendant

Volvo Car Corp.
Defendant

Date	#	Proceeding Text	Source
03/08/2010	1	COMPLAINT for Patent Infringement against all defendants (Filing fee \$ 350 receipt number 0540000000002387982.), filed by Balther Technologies, LLC. (Attachments: # 1 Exhibit A, # 2 Civil Cover Sheet)(Albritton, Eric) (Entered: 03/08/2010)	
03/08/2010		Judge Leonard Davis added. (mll,) (Entered: 03/08/2010)	
03/08/2010	2	Notice of Filing of Patent/Trademark Form (AO 120). AO 120 mailed to the Director of the U.S. Patent and Trademark Office. (Albritton, Eric) (Entered: 03/08/2010)	
03/09/2010	3	NOTICE of Attorney Appearance by Thomas John Ward, Jr on behalf of Balther Technologies, LLC (Ward, Thomas) (Entered: 03/09/2010)	
03/09/2010	4	NOTICE of Attorney Appearance by Jack Wesley Hill on behalf of Balther Technologies, LLC (Hill, Jack) (Entered: 03/09/2010)	
03/09/2010	5	NOTICE of Attorney Appearance by Adam A Biggs on behalf of Balther Technologies, LLC (Biggs, Adam) (Entered: 03/09/2010)	
03/09/2010	6	NOTICE of Attorney Appearance by Debra Rochelle Coleman on behalf of Balther Technologies, LLC (Coleman, Debra) (Entered: 03/09/2010)	
03/09/2010	7	NOTICE of Attorney Appearance by Matthew Clay Harris on behalf of Balther Technologies, LLC (Harris, Matthew) (Entered: 03/09/2010)	
03/10/2010	8	NOTICE of Attorney Appearance by J Mike Amerson on behalf of Balther Technologies, LLC (Amerson, J) (Entered: 03/10/2010)	
03/10/2010	9	NOTICE of Attorney Appearance by Matthew Richard Rodgers on behalf of Balther Technologies, LLC (Rodgers, Matthew) (Entered: 03/10/2010)	
03/10/2010	10	NOTICE of Attorney Appearance by Michael Aaron Benefield on behalf of Balther Technologies, LLC (Benefield, Michael) (Entered: 03/10/2010)	
03/10/2010	11	NOTICE of Attorney Appearance by David Wynne Morehan on behalf of Balther Technologies, LLC (Morehan, David) (Entered: 03/10/2010)	
03/10/2010	12	NOTICE of Attorney Appearance by Danny Lloyd Williams on behalf of Balther Technologies, LLC (Williams, Danny) (Entered: 03/10/2010)	
03/10/2010	13	NOTICE of Attorney Appearance by Jaison Chorikavumkal John on behalf of Balther Technologies, LLC (John, Jaison) (Entered: 03/10/2010)	
03/10/2010	14	NOTICE of Attorney Appearance by Christopher Needham Cravey on behalf of Balther Technologies, LLC (Cravey, Christopher) (Entered: 03/10/2010)	
04/26/2010	15	ORDER that plaintiff file a notice that the case is ready for scheduling conference when all of the defendants have either answered or filed a motion to transfer or dismiss. The notice shall be filed within five days of the last remaining defendant's answer or motion. Signed by Judge Leonard Davis on 04/26/10. cc:attys 4-27-10(mll,) (Entered: 04/27/2010)	
04/28/2010	16	E-GOV SEALED SUMMONS Issued as to American Honda Motor Co. Inc., BMW of North America, LLC, Chrysler Group LLC, Daimler North America Corporation, Ferrari North America, Inc., Ford Motor Company, General Motors, LLC, Hyundai Motor America, Jaguar Land Rover North America, LLC, Maserati North America Inc, Mazda Motor of North America, Inc., Mercedes-Benz USA, LLC, Mitsubishi Motors North America, Inc.,	

Nissan North America, Inc., Porsche Cars North America, Inc., SAAB Cars North America, Inc., Toyota Motor North America, Inc., Toyota Motor Sales, U.S.A., Inc., Volkswagen Group of America, Inc., Volvo Cars of North America, LLC., and emailed to pltf for service. (mll,) (Entered: 04/28/2010)

- 05/17/2010 17 NOTICE of Voluntary Dismissal by Balther Technologies, LLC (Attachments: # 1 Text of Proposed Order)(Albritton, Eric) (Entered: 05/17/2010)
- 05/18/2010 18 ORDER DISMISSING CASE. This civil action is dismissed without prejudice. Pltf and defts shall bear their own costs, expenses and legal fees. Signed by Judge Leonard Davis on 05/18/10. cc:attys 5-18-10(mll,) (Entered: 05/18/2010)
- 05/18/2010 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc.. (Attachments: # 1 Text of Proposed Order) (Smith, Michael) (Entered: 05/18/2010)
- 05/19/2010 20 NOTICE by Mitsubishi Motors Corp., Mitsubishi Motors North America, Inc. re 19 Agreed MOTION for Extension of Time to File Answer re 1 Complaint (Notice of Withdrawal of Agreed MOTION for Extension of Time to File Answer) (Smith, Michael) (Entered: 05/19/2010)

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285312 (10) 7241034 July 10, 2007

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

7241034

Get Drawing Sheet 1 of 7
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Link to Claims Section

July 10, 2007

Automatic directional control system for vehicle headlights

REEXAM-LITIGATE:

Reexamination requested July 10, 2010 by PATENT OWNER, Reexamination No. 90/011,011 (O.G. September 7, 2010) Ex. Gp.: 3992 July 10, 2010

Reexamination requested May 16, 2011 by Volkswagen Group of America, Inc.; (Att'y Is: Clifford A. Ulrich, Kenyon & Kenyon, LLP., New York, NY), Reexamination No. 95/001,621 (O.G. June 28, 2011) Ex. Gp.: 3992 May 16, 2011

NOTICE OF LITIGATION

Balther Technologies, LLC v. American Honda Motor Co Inc et al, Filed March 8, 2010, D.C. E.D. Texas, Doc. No. 6:10cv78

INVENTOR: Smith, James E. - Berkey, Ohio, United States of America (US), United States of America () ; McDonald, Anthony B. - Perrysburg, Ohio, United States of America (US), United States of America ()

APPL-NO: 285312 (10)

FILED-DATE: October 31, 2002

GRANTED-DATE: July 10, 2007

ASSIGNEE-PRE-ISSUE:

February 6, 2003 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., DANA CORPORATION 4500 DORR STREET TOLEDO OHIO 43615, Reel and Frame Number: 013729/0559

ASSIGNEE-AT-ISSUE:

Dana Corporation, Toledo, Ohio, United States of America (US), United States company or corporation (02)

ASSIGNEE-AFTER-ISSUE:

February 22, 2008 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., DANA AUTOMOTIVE SYSTEMS GROUP, LLC 4500 DORR STREET TOLEDO OHIO 43615, 4500 DORR STREET, TOLEDO, OHIO, UNITED STATES OF AMERICA (US), 43615, Reel and Frame Number: 020540/0476

June 12, 2009 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).,

STRAGENT, LLC 211 W. TYLER, SUITE C LONGVIEW TEXAS 75601, 211 W. TYLER, SUITE C, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 022813/0432

March 8, 2010 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., BALTHER TECHNOLOGIES, LLC, SUITE C-4, 211 W. TYLER, LONGVIEW, TEXAS, UNITED STATES OF AMERICA (US), 75601, Reel and Frame Number: 024045/0235

LEGAL-REP: MacMillan, Sobanski & Todd, LLC

PRIM-EXMR: Alavi, Ali

CORE TERMS: headlight, directional, controller, adjustment, sensed, algorithm, sensor, actuator, steering, minus, control system, road, suspension, responsive, automatic, feedback, orientation, beam, aiming, height, generating, electrical, input output device, plane, stored, automatically, optical, pitch, calibration, accomplish

NO-OF-CLAIMS: 5

Source: [Legal > / . . . / > Utility, Design and Plant Patents](#) 

Terms: **patno=7241034** (Suggest Terms for My Search)

View: Custom


Segments: Appl-no, Assignee, Cert-correction, Date, Exmr, Inventor, Legal-rep, Lit-reex, No-of-claims, Patno, Reexam-litigate, Reissue, Reissue-comment

Date/Time: Thursday, December 6, 2012 - 11:23 AM EST

In

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1. Weekly: Honey Hope Honesty Enterprise unchanged on weak volume, News Bites Asian Markets, September 8, 2012 Saturday, 674 words
2. Reexamination Requests Filed Weeks of 5/16/11 And 5/23/11, Patent Law Practice Center, May 31, 2011 Tuesday 10:11 AM EST, , 2671 words, Stefanie Levine

Source: **Combined Source Set 3**  - **News, Most Recent Two Years (English, Full Text)**

Terms: **7241034 or 7,241,034** (Suggest Terms for My Search)

View: Cite

Date/Time: Thursday, December 6, 2012 - 11:24 AM EST

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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 95/001,621, 05/16/2011, 7,241,034, SVIPGP109RE, 1240
Row 2: 92045, 7590, 12/18/2012, [EXAMINER: TON, MY TRANG]
Row 3: [ART UNIT: 3992, PAPER NUMBER]
Row 4: [MAIL DATE: 12/18/2012, DELIVERY MODE: PAPER]

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

Kenyon & Kenyon, LLP One Broadway

New York, NY

10004

MAILED

DEC 18 2012

CENTRAL REEXAMINATION UNIT

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621; 90/011,011

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

ACTION CLOSING PROSECUTION (37 CFR 1.949)	Control Nos.	Patent Under Reexamination
	95/001,621; 90/011,011	7,241,034
	Examiner	Art Unit
	MY-TRANG TON	3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

Responsive to the communication(s) filed by:

Patent Owner on 26 July, 2012

Third Party(ies) on _____

Patent owner may once file a submission under 37 CFR 1.951(a) within 1 month(s) from the mailing date of this Office action. Where a submission is filed, third party requester may file responsive comments under 37 CFR 1.951(b) within 30-days (not extendable- 35 U.S.C. § 314(b)(2)) from the date of service of the initial submission on the requester. **Appeal cannot be taken from this action.** Appeal can only be taken from a Right of Appeal Notice under 37 CFR 1.953.

All correspondence relating to this inter partes reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

PART I. THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. Notice of References Cited by Examiner, PTO-892
2. Information Disclosure Citation, PTO/SB/08
3. _____

PART II. SUMMARY OF ACTION:

- 1a. Claims 1-41 are subject to reexamination.
- 1b. Claims _____ are not subject to reexamination.
2. Claims 1 and 2 have been canceled.
3. Claims _____ are confirmed. [Unamended patent claims]
4. Claims 3-13 and 15-35, 38-41 are patentable. [Amended or new claims]
5. Claims 14,36 and 37 are rejected.
6. Claims _____ are objected to.
7. The drawings filed on _____ are acceptable are not acceptable.
8. The drawing correction request filed on _____ is: approved. disapproved.
9. Acknowledgment is made of the claim for priority under 35 U.S.C. 119 (a)-(d). The certified copy has:
 been received. not been received. been filed in Application/Control No _____
10. Other _____

ACTION CLOSING PROSECUTION

This is an inter partes reexamination of United States Patent Number 7,241,034 ("the '034 patent"), a merger of proceedings having control Number 95/001,621 and 90/011,011.

The '034 patent issued on July 10, 2007 based on US Patent Application No. 10/285,312 (the base application) filed on October 31, 2002.

The '034 patent is currently assigned to "Dana Corporation".

Status of Patent Owner's Response

Patent owner responded to the prior office action on 7/26/2012 ("Response") and proposed amendments to claims 3-5, and cancellation of claims 1-2. This proposed amendment has been considered by the examiner and made of record. This action is in response to the Patent Owner's response.

Status of Requester's Comments

There is no comment from the third Party requester.

Status of the claims

The following is the status of the claims with respect to the proposed Amendment:

Claims 1-2 are cancelled.

Claims 3-5 are amended (Amend claim 3 to allegedly incorporate the features of claim 1, and amend claim 4-5 to depend on claim 3).

Claims 6-41 are newly added (the amendments filed 4/27/2012).

Of these, claims 3 and 7 are independent claims.

Thus, all subsequent reexamination prosecution and examination will be on the basis of the claims as amended in the proposed amendment. **It is noted that although the Office actions will treat proposed amendments as though they have been entered, the proposed amendments will not be effective until the reexamination certificate is issued.**

References

Request for reexamination in EP 90/011,011:

U.S. Patent 4,733,333 issued to Shibata (hereinafter "Shibata")

Request for reexamination in IP 95/001,621:

Art Unit: 3992

1. United Kingdom Patent Application Publication No. 2309773 by Uchida (hereinafter "Uchida").
2. United Kingdom Patent Application Publication No. 2309774 by Takahashi (hereinafter "Takahashi").
3. U.S. Patent No. 5,182,460 by Hussman (hereinafter "Hussman").
4. German Patent Application Publication No. 3110094 by Miskin et al (hereinafter "Miskin et al.").
5. German Patent Application Publication No. 3129891 by Leleve (hereinafter "Leleve").
6. U.S. Patent No. 6,305,823 by Toda et al (hereinafter "Toda. et al.").
7. U.S. Patent No: 6,193,398 by Okuchi et al (hereinafter "Okuchi et al.").
8. U.S. Patent No. 5,909,949 by Gotoh (hereinafter "Gotoh").
9. U.S. Patent No. 4,954,933 by Wassen et al (hereinafter "Wassen et al.").

Status of Previous not adopted Rejections

Request for reexamination in EP 90/011,011:

Shibata's issue has been withdrawn in the Non-Office action. For reasoning see the Non-final Office action at pages 9-10.

Request for reexamination in IP 95/001,621:

1/ Issues 3, 8, 13 and 18 were found not to raise a SNQ in the Order will not be listed and will not be discussed further.

2/ Issues 1-2, 4-7, 9-12, 14-17 and 19-20 raised for the original claims 1-5 will not be evaluated because of the amendment filed on 4/27/2012.

3/ Issues 21, 23, 26, 29-33, 35, 36, 38 were found not adopted in the non-final Office action are not listed and will not be discussed further. For reasoning see the Non-final Office action at pages 11-12, 23-25, 53-55, 85-98.

Status of Previous Rejections

The following rejections were previously made by the Office:

Issue 22: Claims 1, 2, 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 are rejected under 35 U.S.C. § 102(b) as being anticipated by Takahashi.

Issue 24: Claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 are rejected under 35 U.S.C § 103(a) as being unpatentable over Toda in view of Uchida.

Issue 25: Claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 are rejected under 35 U.S.C § 103(a) as unpatentable over Toda in view of Takahashi.

Issue 27: Claims 1, 2, 4-6, 8-10,~ 12-15, 17-19, 23-24, 28-37 are rejected under 35 U.S.C. § 103(a) as unpatentable over the combination of Okuchi et al. and Uchida.

Issue 28: Claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are rejected under 35 U.S.C. § 103(a) as being unpatentable over the combination of Okuchi et al. and Takahashi.

Issue 34: Claims 16, 20, 21, 25-27 (as amended on 4/27/2012) are rejected under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of the admitted prior art described in the '034 patent specification.

Issue 37: Claim 22 is rejected under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of Wassen.

Details of previous rejections

In view of the amendment filed by Patent Owner on 7/26/2012, grounds of rejection have been changed to reflect the changes.

As to issue 22: The rejection of claims 1, 2, 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 under 35 U.S.C. § 102(b) as being anticipated by Takahashi **is withdrawn**.

Insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, Takahashi is no longer an anticipatory reference. Examiner agrees to withdraw the previously adopted rejections in issue 22. The reference put forth in the request, Takahashi, is not seen to teach the subject matter of claims 3 and 7.

Remaining proposed reject claims 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 are dependent claims and therefore are distinguishable from Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

As to issue 24: The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 under 35 U.S.C § 103(a) as being unpatentable over Toda in view of Uchida **is withdrawn**.

Insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Toda and Uchida no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 24. The references put forth in the request, Toda in view of Uchida, are not seen to teach the subject matter of claims 3 and 7.

Remaining proposed reject claims 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 are dependent claims and therefore are distinguishable from Toda in view of Uchida at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

As to issue 25: The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 under 35 U.S.C § 103(a) as unpatentable over Toda in view of Takahashi **is withdrawn**.

Insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Toda and Takahashi no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 25. The references put forth in the request, Toda in view of Takahashi, are not seen to teach the subject matter of claims 3 and 7.

Remaining proposed reject claims 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 are dependent claims and therefore are distinguishable from Toda in view of Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

As to issue 27: The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 under 35 U.S.C. § 103(a) as unpatentable over the combination of Okuchi et al and Uchida **is withdrawn**.

Insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Okuchi and Uchida no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 27. The references put

Art Unit: 3992

forth in the request, Okuchi in view of Uchida, are not seen to teach the subject matter of claims 3 and 7.

Remaining proposed reject claims 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are dependent claims and therefore are distinguishable from Okuchi in view of Uchida at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

As to issue 28: The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 under 35 U.S.C. § 103(a) as being unpatentable over the combination of Okuchi et al. and Takahashi **is withdrawn**.

Insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Okuchi and Takahashi no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 28. The references put forth in the request, Okuchi in view of Takahashi, are not seen to teach the subject matter of claims 3 and 7.

Remaining proposed reject claims 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are dependent claims and therefore are distinguishable from Okuchi in view of Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

As to issue 34: The rejection of claims 16, 20, 21, 25-27 (as amended on 4/27/2012) under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of the admitted prior art described in the '034 patent specification **is withdrawn.**

Claims 16, 20, 21, 25-27 are dependent claims and therefore are distinguishable from Takahashi in view of the admitted prior art described in the '034 patent specification at least the same reasons as their respective independent claim 7, and add further claim limitations of their own.

As to issue 37: The rejection of claim 22 under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of Wassen **is withdrawn.**

Claim 22 is dependent claim and therefore is distinguishable from Takahashi in view of Wassen at least the same reasons as its respective independent claim 7, and add further claim limitation of its own.

Claim Rejections - 35 USC § 112

Claims 14, 36 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 14: claim 7 already recites the limitations “two or more actuators”. It appears that “a first actuator” and “a second actuator” now recite in claim 14 are a part of "two or more actuators" already recites in claim 7. Thus, in order to avoid any confusion, it is suggested that claim 14 should be amended as:

14. (Currently Amended) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured [to include] such that said two or more actuators include a first actuator and a second actuator and wherein [a] the first actuator connected to the headlight to effect movement thereof in a first direction and [a] the second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.

Claims 36 and 37 include the same limitations for “the controller” as claim 7 and are therefore redundant. These claims should be cancelled.

STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION

The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

Independent claim 3 is patentable because of the fact that no single reference of record or combination of references teach “at least one of said two

Art Unit: 3992

or more sensors generates at least one of said two or more sensor signals that is **representative of a rate of change of the steering angle of the vehicle**” in combination with a "a controller" and "**two or more actuators**" as required in claim 3.

Dependent claims 4-6 come freighted with the limitations of claim 3 from which they stem and are therefore patentable for the same reasons.

Independent claim 7 is patentable because of the fact that no single reference of record or combination of references teach "wherein **said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle** " in combination with "a controller" and "**two or more actuators**" as required in claim 7.

Dependent claims 8-13, 15-35, 38-41 come freighted with the limitations of claim 7 from which they stem and are therefore patentable for the same reasons.

Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

Conclusion

This is an ACTION CLOSING PROSECUTION (ACP); see MPEP § 2671.02.

(1) Pursuant to 37 CFR 1.951(a), the patent owner may once file written comments limited to the issues raised in the reexamination proceeding and/or present a proposed amendment to the claims which amendment will be subject to the criteria of 37 CFR 1.116 as to whether it shall be entered and considered. Such comments and/or proposed amendments must be filed within a time period of 30 days or one month (whichever is longer) from the mailing date of this action. Where the patent owner files such comments and/or a proposed amendment, the third party requester may once file comments under 37 CFR 1.951(b) responding to the patent owner's submission within 30 days from the date of service of the patent owner's submission on the third party requester.

(2) If the patent owner does not timely file comments and/or a proposed amendment pursuant to 37 CFR 1.951(a), then the third party requester is precluded from filing comments under 37 CFR 1.951(b).

(3) Appeal **cannot** be taken from this action, since it is not a final Office action.

Extensions of Time

Extensions of time under 37 CFR 1.136(a) will not be permitted in *inter partes* reexamination proceedings because the provisions of 37 CFR 1.136 apply only to “an applicant” and not to parties in a reexamination proceeding. Additionally, 35 U.S.C. 314(c) requires that *inter partes* reexamination proceedings “will be conducted with special dispatch” (37 CFR 1.937). Patent owner extensions of time in *inter partes* reexamination proceedings are provided for in 37 CFR 1.956. Extensions of time are not available for third party requester comments, because a comment period of 30 days from service of patent owner’s response is set by statute. 35 U.S.C. 314(b)(3).

Notification of Other Proceedings

The patent owner is reminded of the continuing responsibility under 37 CFR 1.985(a), to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving the ‘034 patent throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § 2686 and 2686.04.

All correspondence relating to this *inter partes* reexamination proceeding should be directed:

Art Unit: 3992

By Mail to: Mail Stop InterPartes Reexam
Attn: Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand:
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS- Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning." processing complete.


Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272- 7705.

/My-Trang N. Ton/
Primary Examiner
Central Reexam Unit 3992

Conferees:

/Margaret Rubin/
Primary Examiner 3992

ANDREW J. FISCHER *agf*
Supervisory Patent Reexamination Specialist
CRU -- Art Unit 3992

Reexamination 	Application/Control Nos. 95/001,621; 90/011,011	Applicant(s)/Patent Under Reexamination 7,241,034
	Certificate Date	Certificate Number

Requester Correspondence Address: <input type="checkbox"/> Patent Owner <input checked="" type="checkbox"/> Third Party
Kenyon & Kenyon, LLP One Broadway New York, NY 10004

LITIGATION REVIEW <input checked="" type="checkbox"/>	mt <small>(examiner initials)</small>	12/6/2012 <small>(date)</small>
Case Name		Director Initials
U.S. District - Texas Eastern (Tyler) 6:10cv78 Balther Technologies, Llc v. American Honda Motor Co Inc et A		/A.J.F./ for I.Y.

COPENDING OFFICE PROCEEDINGS	
TYPE OF PROCEEDING	NUMBER
1. 90/011011; 95/001,621	
2.	
3.	
4.	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
7,241,034	) Art Unit: 3992
)
Applications No. 95/001,621 & 90/011,011	) Examiner: MY-TRANG N. TON
)
Filed: 05/16/2011	) Atty. Docket No.:
	) SVIPGP109RE
For: AUTOMATIC DIRECTIONAL CONTROL))
SYSTEM FOR VEHICLE	) Date: 01/02/2013
HEADLIGHTS)
_____)

COMMENTS ON STATEMENT OF REASONS FOR PATENTABILITY AND/OR

CONFIRMATION

AND

AMENDMENT F

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Examiner:

In response to the Office Action Closing Prosecution mailed 12/18/2012 (“Office Action”), please enter the following.

AMENDMENTS TO THE CLAIMS

Amended claims follow:

1. (Cancelled).
2. (Cancelled).
3. (Currently Amended) [The automatic directional control system defined in claim 1] An automatic directional control system for a vehicle headlight, comprising:
two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;
a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and
said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal;
wherein at least one of said two or more sensors generates [a]at least one of said two or more sensor signals that is representative of [the]a rate of change of the steering angle of the vehicle.
4. (Currently Amended) The automatic directional control system defined in claim [1]3, wherein at least one of said two or more sensors generates a signal that is representative of [the]a rate of change of the pitch of the vehicle.

5. (Currently Amended) The automatic directional control system defined in claim [1]3, wherein at least one of said two or more sensors generates a signal that is representative of [the]a suspension height of the vehicle.

6. (New) The automatic directional control system defined in claim 3, wherein said two or more sensors include a first sensor and a second sensor.

7. (New) An automatic directional control system for a vehicle headlight, comprising:

two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and

said two or more actuators each being adapted to be connected to the vehicle headlight to effect movement thereof in accordance with said at least one output signal;

wherein said two or more sensors include a first sensor and a second sensor; and

wherein said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle.

8. (New) The automatic directional control system defined in claim 7, wherein said first sensor is physically separate from said second sensor.

9. (New) The automatic directional control system defined in claim 7, further comprising one or more additional sensors for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of the steering angle of the vehicle, a rate of

change of the pitch of the vehicle, a suspension height of the vehicle, or a rate of change of suspension height of the vehicle.

10. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the road speed of the vehicle.

11. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the steering angle of the vehicle.

12. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the pitch of the vehicle.

13. (New) The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the suspension height of the vehicle.

14. (Currently Amended) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that said two or more actuators include a first actuator and a second actuator and wherein the first actuator connected to the headlight to effect movement thereof in a first direction and the second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.

15. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a first actuator that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.

16. (New) The automatic directional control system defined in claim 15, wherein the two or more actuators include a second actuator that is adapted to be connected to the headlight to effect movement thereof in a horizontal direction.

17. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include an electronically controlled mechanical actuator.

18. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a step motor.

19. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a servo motor.

20. (New) The automatic directional control system defined in claim 7, wherein the two or more actuators include a microstepping motor capable of being operated in fractional step increments.

21. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the headlight is adjustably mounted on the vehicle such that a directional orientation at which a beam of light projects therefrom is capable of being adjusted both up and down relative to a horizontal reference position and left and right relative to a vertical reference position.

22. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that, while in a calibration mode, a directional orientation at which a beam of light projects is capable of being adjusted relative to the vehicle by manual operation of the two or more actuators.

23. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a microprocessor.

24. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller.

25. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes at least one position feedback sensor capable of providing a position feedback signal associated with at least one of the two or more actuators.

26. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes a Hall Effect sensor.

27. (New) The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes an optical interrupter.

28. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes memory.

29. (New) The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory.

30. (New) The automatic directional control system defined in claim 28, wherein the memory is configured to store a predetermined reference position associated with the headlight.

31. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

32. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

33. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

34. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

35. (New) The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

36. (Cancelled).

37. (Cancelled).

38. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to at least one of said two or more sensor signals to automatically activate one or more vehicle lights that are different than the headlight.

39. (New) The automatic directional control system defined in claim 38, wherein said one or more vehicle lights that are different than the headlight include one or more lights for illuminating a road in front of the vehicle during a turn.

40. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight.

41. (New) The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight to extend an angular range of a road surface.

REMARKS

Patent Owner thanks the Examiner for noting the allowable subject matter. Patent Owner has amended Claim 14 to overcome alleged 35 U.S.C. §112 issues. Furthermore, Patent Owner has cancelled Claims 36 and 37. Table 1 shows a summary of Patent Owner's amendments, relative to Patent Owner's Amendment E, dated 7/26/2012.

Table 1

Claim 1 – Cancelled, same as Amendment E.
Claim 2 – Cancelled, same as Amendment E.
Claim 3 – Same text as Amendment E.
Claim 4 – Same text as Amendment E.
Claim 5 – Same text as Amendment E.
Claim 6 – Same text as Amendment E.
Claim 7 – Same text as Amendment E.
Claim 8 – Same text as Amendment E.
Claim 9 – Same text as Amendment E.
Claim 10 – Same text as Amendment E.
Claim 11 – Same text as Amendment E.
Claim 12 – Same text as Amendment E.
Claim 13 – Same text as Amendment E.
Claim 14 – Patent Owner deleted “to include” (which was presented in Amendment D1) and inserted “such that said two or more actuators include a first actuator and a second actuator and wherein.” Patent Owner changed “a” to “the” relating to “the first actuator connected to the headlight” and “the second actuator connected to the headlight.”
Claim 15 – Same text as Amendment E.
Claim 16 – Same text as Amendment E.
Claim 17 – Same text as Amendment E.
Claim 18 – Same text as Amendment E.
Claim 19 – Same text as Amendment E.

Claim 20 – Same text as Amendment E.
Claim 21 – Same text as Amendment E.
Claim 22 – Same text as Amendment E.
Claim 23 – Same text as Amendment E.
Claim 24 – Same text as Amendment E.
Claim 25 – Same text as Amendment E.
Claim 26 – Same text as Amendment E.
Claim 27 – Same text as Amendment E.
Claim 28 – Same text as Amendment E.
Claim 29 – Same text as Amendment E.
Claim 30 – Same text as Amendment E.
Claim 31 – Same text as Amendment E.
Claim 32 – Same text as Amendment E.
Claim 33 – Same text as Amendment E.
Claim 34 – Same text as Amendment E.
Claim 35 – Same text as Amendment E.
Claim 36 – Cancelled
Claim 37 – Cancelled
Claim 38 – Same text as Amendment E.
Claim 39 – Same text as Amendment E.
Claim 40 – Same text as Amendment E.
Claim 41 – Same text as Amendment E.

Patent Owner further notes that the '034 patent is currently assigned to "Stragent, LLC" and not to "Dana Corporation" as stated by the Examiner on Page 2 of the Office Action. Patent Owner includes the accompanying 3.73(b) statement and assignment documents for the Examiner's convenience.

In the event fees are due, the Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-4964 (Order No.

SVIPGP109RE). Patent Owner invites the Examiner to telephone the undersigned attorney at the number listed below in the event such communication would advance prosecution.

Additionally, the undersigned hereby certifies that a true and complete copy of the forgoing COMMENTS ON STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION AND AMENDMENT F has been served on Third Party Requestor by mailing said copy on 02 Jan 2013, via First Class Mail, postage prepaid to:

Kenyon & Kenyon, LLP
One Broadway
New York, NY 10004

Respectfully submitted,



Dated: 02 Jan 2013
The Caldwell Firm, LLC
PO Box 59655
Dallas, Texas 75229-0655
Telephone: (214) 734-2313
pcaldwell@thecaldwellfirm.com

Patrick E. Caldwell, Esq.
Reg. No. 44,580

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Stragent, LLC

Application No./Patent No.: 7,241,034 Filed/Issue Date: 7-10-2007

Titled: AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS

Stragent, LLC, a Limited Liability Company
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. the assignee of the entire right, title, and interest in;
- 2. an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
- 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Smith, James E. and McDonald, Anthony B. To: Dana Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 013729, Frame 0559, or for which a copy thereof is attached.

2. From: Dana Corporation To: Dana Automotive Systems Group, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 020540, Frame 0476, or for which a copy thereof is attached.

3. From: Dana Automotive Systems Group, LLC To: Stragent, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 022813, Frame 0432, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Andrew Gordon/
Signature

12/31/2012
Date

Andrew Gordon
Printed or Typed Name

Executive VP
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Stragent, LLC

Application No./Patent No.: 7,241,034 Filed/Issue Date: 7-10-2007

Titled: AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS

Stragent, LLC, a Limited Liability Company
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. the assignee of the entire right, title, and interest in;
- 2. an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
- 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Stragent, LLC To: Balthar Technologies, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 024045, Frame 0235, or for which a copy thereof is attached.

2. From: Balthar Technologies, LLC To: Stragent, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Andrew Gordon/
Signature

12/31/2012
Date

Andrew Gordon
Printed or Typed Name

Executive VP
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

WHEREAS, Balther Technologies, LLC, a Texas Limited Liability Company having a place of business at 211 W. Tyler, Suite C, Longview, TX 75601 (hereinafter "ASSIGNOR") is owner of:

Title: Automatic Directional Control System For Vehicle Headlights

Application Number: 10/285,312

Filing Date: 10/31/2002

Patent Number: 7,241,034

Issue Date: 7/10/2007

("Patent(s)/Application(s)")

WHEREAS, Stragent, LLC, a Texas Limited Liability Company having a place of business at 211 W. Tyler, Suite C, Longview, TX 75601 (hereinafter "ASSIGNEE") desires to acquire ASSIGNOR's entire right, title, and interest in and to the Patent(s)/Application(s);

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire, irrevocable, and unconditional right, title, and interest of ASSIGNOR in, to, and under the Patent(s)/Application(s), and the inventions disclosed in the Patent(s)/Application(s) (regardless of whether claimed) including but not limited to (a) all rights of ASSIGNOR in any and all priority patent application(s), and all foreign and domestic patents that may issue from the Patent(s)/Application(s) and the aforementioned priority patent application(s), including reexaminations, reissues, renewals, continuations, continuations-in-part, divisionals, or extensions thereof that have been or may hereafter be filed, and (b) the right to sue for and collect damages for past, present, and future infringements of the Patent(s)/Application(s).

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4 day of December 2010.



Name: Christopher M. Edgeworth

Title: President & CEO, Balther Technologies, LLC

Electronic Acknowledgement Receipt

EFS ID:	14597762
Application Number:	95001621
International Application Number:	
Confirmation Number:	1240
Title of Invention:	Automatic Directional Control System for Vehicle Headlights
First Named Inventor/Applicant Name:	7,241,034
Customer Number:	92045
Filer:	Patrick Edgar Caldwell
Filer Authorized By:	
Attorney Docket Number:	SVIPGP109RE
Receipt Date:	02-JAN-2013
Filing Date:	16-MAY-2011
Time Stamp:	18:03:32
Application Type:	inter partes reexam

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SVIPGP109RE_Combined_Amndt_F_vF_01-02-2013.pdf	362488 <small>4a1d6465bc470dcd3d530ab1d99005a4668d8376</small>	yes	14

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Amendment/Req. Reconsideration-After Non-Final Reject		1	11
Assignee showing of ownership per 37 CFR 3.73.		12	14

Warnings:

Information:

Total Files Size (in bytes):	362488
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621 95/011011	05/16/2011	7,241,034	SVIPGP109RE	1240
92045	7590	03/05/2013	EXAMINER TON, MY TRANG	
The Caldwell Firm, LLC PO Box 59655 Dept. SVIPGP Dallas, TX 75229			ART UNIT	PAPER NUMBER
			3992	
			MAIL DATE	DELIVERY MODE
			03/05/2013	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

Kenyon & Kenyon, LLP

One Broadway

New York, NY 10004

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621; 90/011,011

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

**Right of Appeal Notice
(37 CFR 1.953)**

Control No.	Patent Under Reexamination
95/001,621; 90/011,011	7,241,034
Examiner	Art Unit
MY-TRANG TON	3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

Responsive to the communication(s) filed by:
Patent Owner on 02 January, 2013
Third Party(ies) on _____

Patent owner and/or third party requester(s) may file a notice of appeal with respect to any adverse decision with payment of the fee set forth in 37 CFR 41.20(b)(1) within **one-month or thirty-days (whichever is longer)**. See MPEP 2671. In addition, a party may file a notice of **cross** appeal and pay the 37 CFR 41.20(b)(1) fee **within fourteen days of service** of an opposing party's timely filed notice of appeal. See MPEP 2672.

All correspondence relating to this inter partes reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

If no party timely files a notice of appeal, prosecution on the merits of this reexamination proceeding will be concluded, and the Director of the USPTO will proceed to issue and publish a certificate under 37 CFR 1.997 in accordance with this Office action.

The proposed amendment filed 02 January, 2013 will be entered will not be entered*

*Reasons for non-entry are given in the body of this notice.

- 1a. Claims 1-41 are subject to reexamination.
- 1b. Claims _____ are not subject to reexamination.
- 2. Claims 1,2,36 and 37 have been cancelled.
- 3. Claims _____ are confirmed. [Unamended patent claims].
- 4. Claims 3-35 and 38-41 are patentable. [Amended or new claims].
- 5. Claims _____ are rejected.
- 6. Claims _____ are objected to.
- 7. The drawings filed on _____ are acceptable. are not acceptable.
- 8. The drawing correction request filed on _____ is approved. disapproved.
- 9. Acknowledgment is made of the claim for priority under 35 U.S.C. 119 (a)-(d) or (f). The certified copy has:
 been received. not been received. been filed in Application/Control No. _____.
- 10. Other _____

Attachments

- 1. Notice of References Cited by Examiner, PTO-892
- 2. Information Disclosure Citation, PTO/SB/08
- 3. _____

DETAIL OFFICE ACTION

This is an inter partes reexamination of United States Patent Number 7,241,034 (herein "the '034 patent"), a merger of proceedings having control Number 95/001,621 and 90/011,011.

The '034 patent issued on July 10, 2007 based on US Patent Application No. 10/285,312 (the base application) filed on October 31, 2002.

The '034 patent is currently assigned to "Stragent, LLC".

This is a RIGHT OF APPEAL NOTICE (RAN); see MPEP § 2673.02 and § 2674. The decision in this Office action as to the patentability or unpatentability of any original patent claim, any proposed amended claim and any new claim in this proceeding is a **FINAL DECISION**.

Submissions after Action Closing Prosecution

Patent owner responded to the ACP on 1/2/2013 ("Response") and proposed amendments to claim 14, and cancellation of claims 36 and 37.

Status of Patent Owner's Response

The proposed amendment filed 1/2/2013 has been considered by the examiner and made of record. This action is in response to the Patent Owner's response.

Status of Requester's Comments

There is no comment from the third Party requester.

Status of Claims

The following is the status of the claims with respect to the proposed Amendment:

Claims 1, 2 (the amendment filed 4/27/2012) and 36, 37 (the Amendment filed 1/2/2013) are cancelled.

Claim 14 is amended to correct the rejection under 35 U.S.C 112, second paragraph (the amendment filed 1/2/2013).

Claims 3-13, 15-35 and 38-41 are remained as of the amendments filed 4/27/2012.

Of these, claims 3 and 7 are independent claims.

The Action Closing Prosecution, dated 12/18/2012, indicated that claims 3-13, 15-35, 38-41 were noted as being patentable. Amended claim 14 is now patentable.

Prior Art References

Request for reexamination in EP 90/011,011:

U.S. Patent 4,733,333 issued to Shibata (hereinafter "Shibata")

Request for reexamination in IP 95/001,621:

1. United Kingdom Patent Application Publication No. 2309773 by Uchida (hereinafter "Uchida").

2. United Kingdom Patent Application Publication No. 2309774 by Takahashi (hereinafter "Takahashi").

3. U.S. Patent No. 5,182,460 by Hussman (hereinafter "Hussman").

4. German Patent Application Publication No. 3110094 by Miskin et al (hereinafter "Miskin et al.").

5. German Patent Application Publication No. 3129891 by Leleve (hereinafter "Leleve").

6. U.S. Patent No. 6,305,823 by Toda et al (hereinafter "Toda. et al.").

7. U.S. Patent No: 6,193,398 by Okuchi et al (hereinafter "Okuchi et al.").

8. U.S. Patent No. 5,909,949 by Gotoh (hereinafter "Gotoh").

Art Unit: 3992

9. U.S. Patent No. 4,954,933 by Wassen et al (hereinafter "Wassen et al.").

Status of Previous not adopted Rejections

Request for reexamination in EP 90/011,011:

Shibata's issue has been withdrawn in the Non-Office action. For reasoning see the Non-final Office action at pages 9-10.

Request for reexamination in IP 95/001,621:

1/ Issues 3, 8, 13 and 18 were found not to raise a SNQ in the Order will not be listed and will not be discussed further.

2/ Issues 1-2, 4-7, 9-12, 14-17 and 19-20 raised for the original claims 1-5 will not be evaluated because of the amendment filed on 4/27/2012.

3/ Issues 21, 23, 26, 29-33, 35, 36, 38 were found not adopted in the non-final Office action are not listed and will not be discussed further. For reasoning see the Non-final Office action at pages 11-12, 23-25, 53-55, 85-98.

Status of Previous Rejections

The following rejections are previously noted by the Office:

As to issue 22: The rejection of claims 1, 2, 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 under 35 U.S.C. § 102(b) as being anticipated by Takahashi.

As noted in the ACP, insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, Takahashi is no longer an anticipatory reference. Examiner agrees to withdraw the previously adopted rejections in issue 22. Thus, the anticipated rejection based on the Takahashi **was withdrawn**.

As noted in the ACP, remaining proposed reject claims 4-6, 8, 15, 17-19, 23-24, 28-29, 31-32, 35-37 are dependent claims and therefore are distinguishable from Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

The ACP mailed out 12/18/2012 is incorporated herein by reference.

As to issue 24: The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 under 35 U.S.C § 103(a) as being unpatentable over Toda in view of Uchida.

As noted in the ACP, insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Toda and Uchida no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 24. The references put forth in the request, Toda in view of Uchida, are not seen to teach the subject matter of claims 3 and 7. Thus, the obviousness rejection based on the combination of Toda in view of Uchida **was withdrawn**.

As noted in the ACP, remaining proposed reject claims 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 31-37 are dependent claims and therefore are distinguishable from Toda in view of Uchida at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

The ACP mailed out 12/18/2012 is incorporated herein by reference.

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As to issue 25: The rejection of claims 1, 2, 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 under 35 U.S.C § 103(a) as unpatentable over Toda in view of Takahashi.

As noted in the ACP, insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Toda and Takahashi no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 25. The references put forth in the request, Toda in view of Takahashi, are not seen to teach the subject matter of claims 3 and 7. Thus, the obviousness rejection based on the combination of Toda in view of Takahashi **was withdrawn**.

As noted in the ACP, remaining proposed reject claims 4-6, 8-9, 12, 14, 15, 17-19, 23-25, 28-29, 31-37 are dependent claims and therefore are distinguishable from Toda in view of Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

The ACP mailed out 12/18/2012 is incorporated herein by reference.

As to issue 27: The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 under 35 U.S.C. § 103(a) as unpatentable over the combination of Okuchi et al and Uchida.

As noted in the ACP, insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Okuchi and Uchida no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 27. The references put forth in the request, Okuchi in view of Uchida, are not seen to teach the subject matter of claims 3 and 7. Thus, the obviousness rejection based on the combination of Okuchi in view of Uchida **was withdrawn**.

As noted in the ACP, remaining proposed reject claims 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are dependent claims and therefore are distinguishable from Okuchi in view of Uchida at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

The ACP mailed out 12/18/2012 is incorporated herein by reference.

As to issue 28: The rejection of claims 1, 2, 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 under 35 U.S.C. § 103(a) as being unpatentable over the combination of Okuchi et al. and Takahashi.

As noted in the ACP, insofar as claim 3 has been amended to allegedly incorporate the features of claims 1 and 3, and claim 7 has been amended to allegedly incorporate the features of claims 1 and 7, the combination of Okuchi and Takahashi no longer renders claims 3 and 7 obvious. Examiner agrees to withdraw the previously adopted rejections in issue 28. The references put forth in the request, Okuchi in view of Takahashi, are not seen to teach the subject matter of claims 3 and 7. Thus, the obviousness rejection based on the combination of Okuchi in view of Takahashi **was withdrawn**.

As noted in the ACP, remaining proposed reject claims 4-6, 8-10, 12-15, 17-19, 23-24, 28-37 are dependent claims and therefore are distinguishable from Okuchi in view of Takahashi at least the same reasons as their respective independent claims 3 and 7, and add further claim limitations of their own.

The ACP mailed out 12/18/2012 is incorporated herein by reference.

Art Unit: 3992

As to issue 34: The rejection of claims 16, 20, 21, 25-27 (as amended on 4/27/2012) under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of the admitted prior art described in the '034 patent specification.

As noted in the ACP, claims 16, 20, 21, 25-27 are dependent claims and therefore are distinguishable from Takahashi in view of the admitted prior art described in the '034 patent specification at least the same reasons as their respective independent claim 7, and add further claim limitations of their own. Thus, the obviousness rejection based on the combination of Takahashi in view of the admitted prior art described in the '034 patent specification **was withdrawn.**

The ACP mailed out 12/18/2012 is incorporated herein by reference.

As to issue 37: The rejection of claim 22 under 35 U.S.C. §103(a) as being unpatentable over Takahashi in view of Wassen.

As noted in the ACP, claim 22 is dependent claim and therefore is distinguishable from Takahashi in view of Wassen at least the same reasons as its respective independent claim 7, and adds further claim limitation of its own. Thus, the obviousness rejection based on the combination of Takahashi in view of Wassen **was withdrawn.**

The ACP mailed out 12/18/2012 is incorporated herein by reference.

Art Unit: 3992

STATEMENT OF REASONS FOR PATENTABILITY AND/OR CONFIRMATION

The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

As noted in the ACP, independent claim 3 is patentable because of the fact that no single reference of record or combination of references teach "at least one of said two or more sensors generates at least one of said two or more sensor signals that is **representative of a rate of change of the steering angle of the vehicle**" in combination with a "a controller" and "**two or more actuators**" as required in claim 3.

Dependent claims 4-6 come freighted with the limitations of claim 3 from which they stem and are therefore patentable for the same reasons.

Independent claim 7 is patentable because of the fact that no single reference of record or combination of references teach "wherein **said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle**" in combination with "a controller" and "**two or more actuators**" as required in claim 7.

Dependent claims 8-35, 38-41 come freighted with the limitations of claim 7 from which they stem and are therefore patentable for the same reasons.

Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

Conclusion

Extensions of time under 37 CFR 1.136(a) will not be permitted in *inter partes* reexamination proceedings because the provisions of 37 CFR 1.136 apply only to "an applicant" and not to parties in a reexamination proceeding. Additionally, 35 U.S.C. 314(c) requires that *inter partes* reexamination proceedings "will be conducted with special dispatch" (37 CFR 1.937). Patent owner extensions of time in *inter partes* reexamination proceedings are provided for in 37 CFR 1.956. Extensions of time are not available for third party requester comments, because a comment period of 30 days from service of patent owner's response is set by statute. 35 U.S.C. 314(b) (3).

The patent owner is reminded of the continuing responsibility under 37 CFR 1.985(a), to apprise the Office of any litigation activity, or other prior or concurrent proceeding, involving the base patent throughout the course of this reexamination proceeding. The third party requester is also reminded of the ability to similarly apprise the Office of any such activity or proceeding throughout the course of this reexamination proceeding. See MPEP § 2686 and 2686.04.

This is a RIGHT OF APPEAL NOTICE (RAN); see MPEP § 2673.02 and § 2674. The decision in this Office action as to the patentability or unpatentability of any original patent claim, any proposed amended claim and any new claim in this proceeding is a FINAL DECISION.

No amendment can be made in response to the Right of Appeal Notice in an *inter partes* reexamination. 37 CFR 1.953(c). Further, no affidavit or other evidence can be submitted in an *inter partes* reexamination proceeding after the right of appeal notice, except as provided in 37 CFR 1.981 or as permitted by 37 CFR 41.77(b)(1). 37 CFR 1.116(f).

Each party has a **thirty-day or one-month time period, whichever is longer**, to file a notice of appeal. The patent owner may appeal to the Board of Patent Appeals and Interferences with respect to any decision adverse to the patentability of any original or proposed amended or new claim of the patent by filing a notice of appeal and paying the fee set forth in 37 CFR 41.20(b)(1). The

Art Unit: 3992

third party requester may appeal to the Board of Patent Appeals and Interferences with respect to any decision favorable to the patentability of any original or proposed amended or new claim of the patent by filing a notice of appeal and paying the fee set forth in 37 CFR 41.20(b)(1).

In addition, a patent owner who has not filed a notice of appeal may file a notice of cross appeal within **fourteen days of service** of a third party requester's timely filed notice of appeal and pay the fee set forth in 37 CFR 41.20(b)(1). A third party requester who has not filed a notice of appeal may file **a notice of cross appeal within fourteen days of service** of a patent owner's timely filed notice of appeal and pay the fee set forth in 37. CFR 41.20(b)(1).

Any appeal in this proceeding must identify the claim(s) appealed, and must be signed by the patent owner (for a patent owner appeal) or the third party requester (for a third party requester appeal), or their duly authorized attorney or agent.

Any party that does not file a timely notice of appeal or a timely notice of cross appeal will lose the right to appeal from any decision adverse to that party, but will not lose the right to file a respondent brief and fee where it is appropriate for that party to do so. If no party files a timely appeal, the reexamination prosecution will be terminated, and the Director will proceed to issue and publish a certificate under 37 CFR 1.997 in accordance with this Office action.

Art Unit: 3992

All correspondence relating to this inter partes reexamination proceeding should be directed:

By Mail to: Mail Stop InterPartes Reexam
Attn: Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand:
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314


Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS- Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning." processing complete.

Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272- 7705.

/My-Trang Nu Ton/
Primary Examiner
Central Reexam Unit 3992

Conferees:
/Margaret Rubin/
Primary Examiner, CRU 3992

/ANDREW J. FISCHER/
Supervisory Patent Examiner, Art Unit 3992

Reexamination 	Application/Control No. 95/001,621; 90/011,011	Applicant(s)/Patent Under Reexamination 7,241,034
	Certificate Date	Certificate Number

Requester Correspondence Address: <input type="checkbox"/> Patent Owner <input checked="" type="checkbox"/> Third Party
Kenyon & Kenyon, LLP One Broadway New York, NY 10004

LITIGATION REVIEW <input checked="" type="checkbox"/>	mt <small>(examiner initials)</small>	2/19/2013 <small>(date)</small>
Case Name		Director Initials
U.S. District - Texas Eastern (Tyler) 6:10cv78 Balther Technologies, Llc v. American Honda Motor Co. Inc. et al		/A.J.F./ for I.Y.

COPENDING OFFICE PROCEEDINGS	
TYPE OF PROCEEDING	NUMBER
1. 90/011011	
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3.	
4.	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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95/001,621

05/16/2011

7,241,034

SVIPGP109RE

1240

90/011011

92045

7590

04/29/2013

The Caldwell Firm, LLC
PO Box 59655
Dept. SVIPGP
Dallas, TX 75229

EXAMINER

TON, MY TRANG

ART UNIT	PAPER NUMBER
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3992

MAIL DATE	DELIVERY MODE
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04/29/2013

PAPER

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
90/011,011 95/oct 621	07/10/2010	7,241,034	SVIPGP109RE	3919
92045 The Caldwell Firm, LLC PO Box 59655 Dept. SVIPGP Dallas, TX 75229	7590 04/29/2013		EXAMINER TON, MY TRANG	
			ART UNIT 3992	PAPER NUMBER
			MAIL DATE 04/29/2013	DELIVERY MODE PAPER

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The time period for reply, if any, is set in the attached communication.



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THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS
KENYON & KENYON LLP
ONE BROADWAY
NEW YORK, NY 10004

Date:

MAILED

APR 29 2013

CENTRAL REEXAMINATION UNIT

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NO. : 950016214 90/011011
PATENT NO. : 7241034
ART UNIT : 3992

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the inter partes reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an ex parte reexamination has been merged with the inter partes reexamination, no responsive submission by any ex parte third party requester is permitted.

All correspondence relating to this inter partes reexamination proceeding should be directed to the Central Reexamination Unit at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.



UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
95/001621& 90/011011	16 May, 2011	7,241,034	SVIPGP109RE

The Caldwell Firm, LLC PO Box 59655 Dept. SVIPGP Dallas, TX 75229	EXAMINER	
	MY-TRANG TON	
	ART UNIT	PAPER
	3992	20130411

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

On March 5, 2013, the USPTO mailed a right of appeal notice (RAN) for reexamination of U.S Patent 7,241,034, a merger of proceedings having control Number 95/001,621 and 90/011,011, indicated under Status of claims section on page 4, lines 7-8, that "Claims 3-13, 15-35 and 38-41 are remained as of the amendments filed 4/27/2012". However, lines 7-8 of page 4 should be "Claims 3-13, 15-35 and 38-41 are remained as of the amendments filed 7/26/2012 and 1/2/2013".

Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272- 7705.

/My-Trang Ton/ Primary Examiner, CRU 3992	/Margaret Rubin/ Primary Examiner, CRU 3992 /Andrew J. Fischer/ SPRS, CRU 3992
--	---

**Transmittal of Communication to
Third Party Requester
Inter Partes Reexamination**

Control No.

95/001,621; 90/011,011

Examiner

MY-TRANG TON

Patent Under Reexamination

7,241,034

Art Unit

3992

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address. --

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

Kenyon & Kenyon, LLP
One Broadway
New York, NY 10004

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
95/001,621 401011011	05/16/2011	7,241,034	SVIPGP109RE	1240
92045	7590	05/17/2013	EXAMINER TON, MY TRANG	
The Caldwell Firm, LLC PO Box 59655 Dept. SVIPGP Dallas, TX 75229			ART UNIT	PAPER NUMBER
			3992	
			MAIL DATE	DELIVERY MODE
			05/17/2013	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



DO NOT USE IN PALM PRINTER

(THIRD PARTY REQUESTER'S CORRESPONDENCE ADDRESS)

Kenyon & Kenyon, LLP

One Broadway

New York, NY 10004

MAILED

MAY 17 2013

CENTRAL REEXAMINATION UNIT

**Transmittal of Communication to Third Party Requester
Inter Partes Reexamination**

REEXAMINATION CONTROL NUMBER 95/001,621.

PATENT NUMBER 7,241,034.

TECHNOLOGY CENTER 3900.

ART UNIT 3992.

Enclosed is a copy of the latest communication from the United States Patent and Trademark Office in the above-identified reexamination proceeding. 37 CFR 1.903.

Prior to the filing of a Notice of Appeal, each time the patent owner responds to this communication, the third party requester of the *inter partes* reexamination may once file written comments within a period of 30 days from the date of service of the patent owner's response. This 30-day time period is statutory (35 U.S.C. 314(b)(2)), and, as such, it cannot be extended. See also 37 CFR 1.947.

If an *ex parte* reexamination has been merged with the *inter partes* reexamination, no responsive submission by any *ex parte* third party requester is permitted.

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of the communication enclosed with this transmittal.

NOTICE OF INTENT TO ISSUE INTER PARTES REEXAMINATION CERTIFICATE	Control No. 95/001,621; 90/011,011	Patent Under Reexamination 7,241,034
	Examiner MY-TRANG TON	Art Unit 3992

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address.** --

1. Prosecution on the merits is (or remains) closed in this *inter partes* reexamination proceeding. This proceeding is subject to reopening at the initiative of the Office or upon petition. Cf. 37 CFR 1.313(a). A Certificate will be issued in view of:
 - a. The communication filed on 02 January, 2013 by Patent Owner.
 - b. Patent owner's failure to file an appropriate timely response to the Office action dated _____
 - c. The failure to timely file an Appeal with fee by all parties to the reexamination proceeding entitled to do so. 37 CFR 1.959 and 41.61.
 - d. The failure to timely file an Appellant's Brief with fee by all parties to the reexamination proceeding entitled to do so. 37 CFR 41.66(a).
 - e. The decision on appeal by the Board of Patent Appeals and Interferences Court dated _____
 - f. Other: _____

2. The Reexamination Certificate will indicate the following:
 - a. Change in the Specification: Yes No
 - b. Change in the Drawings: Yes No
 - c. Status of the Claims:
 - (1) Patent claim(s) confirmed:
 - (2) Patent claim(s) amended (including dependent on amended claim(s)): 3-5
 - (3) Patent claim(s) cancelled: 1 and 2.
 - (4) Newly presented claim(s) patentable: 6-35 and 38-41.
 - (5) Newly presented cancelled claims: 36 and 37.
 - (6) Patent claim(s) previously currently disclaimed:
 - (7) Patent claim(s) not subject to reexamination:

3. Note the attached statement of reasons for patentability and/or confirmation. Any comments considered necessary by patent owner regarding reasons for patentability and/or confirmation must be submitted promptly to avoid processing delays. Such submission(s) should be labeled: "Comments On Statement of Reasons for Patentability and/or Confirmation."

4. Note attached NOTICE OF REFERENCE CITED, (PTO-892).
5. Note attached LIST OF REFERENCES CITED (PTO/SB/08 or PTO/SB/08 substitute).
6. The drawings filed on _____ is: approved disapproved.
7. Acknowledgment is made of the claim for priority under 35 U.S.C. § 119(a) - (d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the certified copies have
 - been received.
 - not been received.
 - been filed in Application No. _____
 - been filed in reexamination Control No. _____
 - been received by the International Bureau in PCT Application No. _____

- * Certified copies not received:

8. Note Examiner's Amendment.
9. Other: _____

All correspondence relating to this *inter partes* reexamination proceeding should be directed to the **Central Reexamination Unit** at the mail, FAX, or hand-carry addresses given at the end of this Office action.

Notice of Intent to Issue Reexamination Certificate for Control No.

95/001,621 and 90/011,011

This is an inter partes reexamination of United States Patent Number 7,241,034 (herein "the '034 patent"), a merger of proceedings having control Number 95/001,621 and 90/011,011.

The '034 patent is currently assigned to Dana Corporation.

Review of Facts

1/ Amendments were filed on April 27, 2012 and July 26, 2012. These amendments have been considered and entered.

2/ An Action Closing Prosecution was mailed on December 18, 2012.

3/ A Right of Appeal Notice was mailed on March 5, 2013 in which Patent Owner and Third Party Requester were given a thirty-day or one-month time period (whichever is longer) to file a notice of appeal.

4/ No response has been received.

The RAN indicates:

Art Unit: 3992

If no party timely files a notice of appeal, prosecution on the merits of this reexamination proceeding will be concluded, and the Director of the USPTO will proceed to issue and publish a certificate under 37 CFR 1.997 accordance with this Office action.

Accordingly, this Notice of Intent to Issue Inter Partes Reexamination Certificate is being issued.

Claim Status

Claims 1-41 are subject to reexamination.

Of these:

1/ Claims 1-2 and 36-37 are cancelled (the Amendments filed July 26, 2012 and January 2, 2013).

2/ Claims 3-35 and 38-41 are patentable. Of these, claims 3 and 7 are independent claims.

Art Unit: 3992

**STATEMENT OF REASONS FOR PATENTABILITY AND/OR
CONFIRMATION**

The following is an examiner's statement of reasons for patentability and/or confirmation of the claims found patentable in this reexamination proceeding:

Independent claim 1 is patentable because of the fact that no single reference of record or combination of references teach "at least one of said two or more sensors generates at least one of said two or more sensor signals that is **representative of a rate of change of the steering angle of the vehicle**" in combination with a "a **controller**" and "**two or more actuators**" as required in claim 3.

Claims 4-6 depend directly from claim 3 are patentable for at least the reasons claim 3 is found patentable.

Independent claim 7 is patentable because of the fact that no single reference of record or combination of references teach "wherein **said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is**

Art Unit: 3992

adapted to generate a signal that is representative of a condition including the pitch of the vehicle " in combination with "a controller" and "two or more actuators" as required in claim 7.

Claims 8-35 and 38-41 depend directly from claim 7 are patentable for at least the reasons claim 7 is found patentable.

Any comments considered necessary by PATENT OWNER regarding the above statement must be submitted promptly to avoid processing delays. Such submission by the patent owner should be labeled: "Comments on Statement of Reasons for Patentability and/or Confirmation" and will be placed in the reexamination file.

All correspondence relating to this *inter partes* reexamination proceeding should be directed:

By Mail to: Mail Stop *Inter Partes* Reexam
Attn: Central Reexamination Unit
Commissioner for Patents
United States Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

Art Unit: 3992

By hand: Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Registered users of EFS-Web may alternatively submit such correspondence via the electronic filing system EFS-Web, at <https://sportal.uspto.gov/authenticate/authenticateuserlocalepf.html>. EFS-Web offers the benefit of quick submission to the particular area of the Office that needs to act on the correspondence. Also, EFS-Web submissions are "soft scanned" (i.e., electronically uploaded) directly into the official file for the reexamination proceeding, which offers parties the opportunity to review the content of their submissions after the "soft scanning" process is complete.


Any inquiry concerning this communication or earlier communications from the examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

/My-Trang N. Ton/
Primary Examiner
Central Reexamination Unit 3992

Conferees:

/Margaret Rubin/
Primary Examiner CRU 3992

/ANDREW J. FISCHER/
Supervisory Patent Examiner, Art Unit 3992

Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	95/001,621; 90/011,011	7,241,034	
	Examiner	Art Unit	
	MY-TRANG TON	3992	

ISSUE CLASSIFICATION											
ORIGINAL				CROSS REFERENCE(S)							
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
362		465		701	49						
INTERNATIONAL CLASSIFICATION											
B	6	0	Q	1/00							
B	0	6	R	22/00							
				/							
				/							
				/							
----- (Assistant Examiner) (Date)				/My Trang Nu Ton/ Primary Examiner, CRU 3992 (P Primary Examiner) (Date)						Total Claims Allowed: 37	
(Legal Instruments Examiner) (Date)										O.G. Print Claim(s) 3		O.G. Print Fig. 1

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant										<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		91		121		151		181		
	2		32		62		92		122		152		182		
	3		33		63		93		123		153		183		
	4		34		64		94		124		154		184		
	5		35		65		95		125		155		185		
	6		36		66		96		126		156		186		
	7		37		67		97		127		157		187		
	8		38		68		98		128		158		188		
	9		39		69		99		129		159		189		
	10		40		70		100		130		160		190		
	11		41		71		101		131		161		191		
	12		42		72		102		132		162		192		
	13		43		73		103		133		163		193		
	14		44		74		104		134		164		194		
	15		45		75		105		135		165		195		
	16		46		76		106		136		166		196		
	17		47		77		107		137		167		197		
	18		48		78		108		138		168		198		
	19		49		79		109		139		169		199		
	20		50		80		110		140		170		200		
	21		51		81		111		141		171		201		
	22		52		82		112		142		172		202		
	23		53		83		113		143		173		203		
	24		54		84		114		144		174		204		
	25		55		85		115		145		175		205		
	26		56		86		116		146		176		206		
	27		57		87		117		147		177		207		
	28		58		88		118		148		178		208		
	29		59		89		119		149		179		209		
	30		60		90		120		150		180		210		



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 1240

SERIAL NUMBER 95/001,621	FILING or 371(c) DATE 05/16/2011 RULE	CLASS 362	GROUP ART UNIT 3992	ATTORNEY DOCKET NO. SVIPGP109RE
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APPLICANTS
 7,241,034, Residence Not Provided;
 BALTHER TECHNOLOGIES, LLC (OWNER), LONGVIEW, TX;
 KENYON & KENYON LLP, (3RD.PTY.REQ.), NEW YORK, NY;
 VOLKSWAGEN GROUP OF AMERICA, INC. (REAL.PTY.IN.INTEREST.), HERNDON, VA;
 KENYON & KENYON LLP, NEW YORK, NY

**** CONTINUING DATA *******
 This application is a REX of 10/285,312 10/31/2002 PAT 7241034
 which claims benefit of 60/335,409 10/31/2001
 and claims benefit of 60/356,703 02/13/2002
 and claims benefit of 60/369,447 04/02/2002

**** FOREIGN APPLICATIONS *******


**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	mt Initials				
Verified and Acknowledged <u>/MY-TRANG TON/</u> Examiner's Signature					

ADDRESS
 The Caldwell Firm, LLC
 PO Box 59655
 Dept. SVIPGP
 Dallas, TX 75229
 UNITED STATES

TITLE
 Automatic Directional Control System for Vehicle Headlights

FILING FEE RECEIVED	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
		<input type="checkbox"/> 1.16 Fees (Filing)
		<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)
		<input type="checkbox"/> 1.18 Fees (Issue)
		<input type="checkbox"/> Other _____
		<input type="checkbox"/> Credit

Reexamination 	Application/Control No. 95/001,621; 90/011,011	Applicant(s)/Patent Under Reexamination 7,241,034
	Certificate Date	Certificate Number C1

Requester Correspondence Address: <input type="checkbox"/> Patent Owner <input checked="" type="checkbox"/> Third Party
Kenyon & Kenyon, LLP One Broadway New York, NY 10004

LITIGATION REVIEW <input checked="" type="checkbox"/>	MT <small>(examiner initials)</small>	5/13/13 <small>(date)</small>
Case Name		Director Initials
U.S. District - Texas Eastern (Tyler) 6:10cv78 Balthar Technologies, Llc v. American Honda Motor Co. Inc. et al		

COPENDING OFFICE PROCEEDINGS	
TYPE OF PROCEEDING	NUMBER
1. 90/011011	
2.	
3.	
4.	

9 5/001621

9 0/011011

9

EXAMINER CHECKLIST - REEXAMINATION

Ex Parte Reexam

Inter Partes Reexam

EXAMINER:

All items must be reviewed and completed by the examiner. After completion, this checklist and the reexamination IFW Action Folder (and the patent file wrapper, if one exists) should be forwarded (a) for a reexam in the TC, to the reexamination clerk, or (b) for a reexam in the CRU, to the Patent Reexamination Specialist. Note: If a previous reexamination certificate has been issued, all references below to "the patent" should be replaced by "previous reexamination certificate" and all data entries should be made accordingly.

YES NO

1. Are there any amendments to the description? If yes, indicate (a) the doc code and date of the document containing the amendments and (b) the patent column number(s) and beginning and ending lines of the paragraph(s) containing the changes.

(1)(a) IFW doc code _____ Date _____

(1)(b) beginning _____

(1)(b) end line _____

(2)(a) IFW doc code _____ Date _____

(2)(b) beginning _____

(2)(b) end line _____

YES NO

2. Are there any amendments to the patent drawings? If yes, indicate (a) Fig. No. containing the change(s), (b) the doc code and date of the document containing the NEW sheet of drawings, and (c) a brief description of the change(s), e.g., "reference numerals 10 and 11 have been added to Fig. 1."

(1)(a) Fig. No(s). _____

(1)(b) IFW doc code _____ Date _____

(1)(c) The drawings figure(s) have been changed as follows:

(2)(a) Fig. No(s). _____

(2)(b) IFW doc code _____ Date _____

(2)(c) The drawings figure(s) have been changed as follows:

YES NO

3. Was a terminal disclaimer filed and approved DURING reexamination? If terminal disclaimer approved, "approved" box on the IFS - Terminal Disclaimer form (available in OACS) must be checked. Also, give the doc code and date(s) of each document containing approved terminal disclaimer.

Terminal Disclaimer IFW doc code _____ Date _____

Terminal Disclaimer IFW doc code _____ Date _____

Terminal Disclaimer IFW doc code _____ Date _____

YES NO **4.** Have any certificates of correction to the patent been issued? If yes, give date(s) issued (the date signed and sealed by the USPTO Director on the certificate of correction).

Dates issued:

YES NO **5.** Has a document been submitted indicating the names of the registered attorneys or agents or a law firm to be printed on the reexaminations certificate? If yes, indicate the doc code and date of the document containing the names. (Must be a separate document addressed solely to this issue.)

IFW doc code _____ Date _____

YES NO **6.** Did a litigation search, or any other part of the record, indicate the existence of litigation with respect to the patent being reexamined? Has an entry been made in the "Litigation Review" box of the IFW - Reexamination form? If yes, and a court decision has been issued, complete the following entry. Such decisions include final court decisions (even if still appealable), vacate decisions, remands, and decisions as to the merits of the patent claims. Non-merits decisions on motions such as for a new venue, a new trial/discovery date, or sanctions are not to be entered.

"Attention is directed to the decision of:

relating to this patent. This reexamination may not have resolved all questions raised by this decision. See 37 CFR 1.552 (c) for ex parte reexam and 37 CFR 1.906(c) for inter partes reexam." (Enter case name, court, and date of decision.)

YES NO **6.1.** Is there a reissue application/reexamination proceeding pending at this point, with which this reexamination proceeding has not been merged? If yes, (a) fill in the application or reexamination control number(s), and the filing date (s), and (b) check the appropriate box(es) (two boxes-if both reissue & reexam are pending).

>> "At the time of issuance and publication of this certificate, the patent remains subject to pending reissue application number _____ filed _____ .
The claim content of the patent may be subsequently revised in the reissue proceeding."

>> "At the time of issuance and publication of this certificate, the patent remains subject to pending reissue application numbers filed respectively.
The claim content of the patent may be subsequently revised in the reissue proceedings."

>> "At the time of issuance and publication of this certificate, the patent remains subject to pending reexamination control number _____ filed _____ .
The claim content of the patent may be subsequently revised in the reexamination proceeding."

>> "At the time of issuance and publication of this certificate, the patent remains subject to pending reexamination control numbers filed respectively.
The claim content of the patent may be subsequently revised in the reexamination proceedings."

For items 7-16, mark the "YES" box(es) where appropriate and complete the statement. If not applicable, mark the "NO" box(es). Patent claims retain their original number. All **NEW** allowed claims should be renumbered, if necessary, to immediately follow the highest numbered patent claim. Note that a Claim is "amended" if there is **ANY** change to its text. A claim number should **NOT** be repeated in items 7-16.

ALL the **ORIGINAL** patent claims and **ONLY** new renumbered claims must be listed in items 7-16. Only original patent claims are to be listed in items 7-13 and 15-16. Only new allowed claims are listed in item 14; cancelled new claims are not listed anywhere on this form.

YES NO

7. The patentability of claim(s)

is confirmed.

YES NO

8. Claim(s)

was (were) previously cancelled. (Relates to a **prior** proceeding.)

YES NO

9. Claim(s)

was (were) previously disclaimed. (Statutory disclaimer **prior** to **present** reexam.)

YES NO

10. Claim(s)

is (are) now disclaimed. (Statutory disclaimer in present reexamination.)

YES NO

11. Claim(s)

is (are) cancelled.

(Examiner Note: item 11 is not to be used for new claims that were cancelled. Cancelled new claims are not entered on this form.)

YES NO

12. Claim(s)

is (are) determined to be patentable as amended.

(Printer Note: these claims are to be printed on the reexamination certificate.)

YES NO

13. Claim(s)

dependent on an amended claim, is (are) determined to be patentable.

(Examiner Note: item 13 is to be used for dependent claims whose text has not changed. Dependent claims with changes in the text are "amended claims" which must be listed in item 12, above.)

YES NO

14. New claim(s)

is (are) added and determined to be patentable.

(Printer Note: these claims are to be printed on the reexamination certificate.)

YES NO

15. Claim(s)

was (were) not reexamined.

YES NO

16. Other
(identify claims
and status)

Mark the following boxes upon ensuring that the following statements relating to the IFW – *Issue Classification* form (available in OACS) are correct.

17. The international classification (updated to reflect the current format of the most recent edition) includes all international classifications presently listed on the patent.

18. The reexamination original U.S. classification is the same as the current original U.S. classification of the patent.

19. All current cross-reference classifications are included.

For items 21-25, mark the "YES" or "NO" box indicating whether the item has been changed or added during the reexamination. If yes, indicate doc code date of document containing the change or addition. Certificate of Correction changes are not to be indicated here; instead see Item 4.

YES NO

INID CODE: (54) **21. Title of Invention.**

IFW doc code _____ Date _____

YES NO

INID CODE: (75) **22. Inventor(s)**

- OR -

YES NO

INID CODE: (76)

IFW doc code _____ Date _____

23. Continuing Data

YES NO

INID CODE: (60)

a. -- Combination of Division and Continuation and/or C.I.P.
Give doc code and date of document adding data:

IFW doc code _____ Date _____

--Provisional Application(s)

Give doc code and date of document adding data:

IFW doc code _____ Date _____

YES NO

INID CODE: (62)

b. Division(s)

Give doc code and date of document adding data:

IFW doc code _____ Date _____

YES NO

INID CODE: (63)

c. Continuation(s) and/or C.I.P.

Give doc code and date of document adding data:

IFW doc code _____ Date _____

YES NO

INID CODE: (64)

d. Reissue(s)

Give doc code and date of amendment document :

IFW doc code _____ Date _____

YES NO INID CODE: (30) **24. Foreign Priority**
 Give doc code and date of document adding data:
 IFW doc code _____ Date _____

YES NO INID CODE: (57) **25. Abstract**
 Give doc code and date:
 IFW doc code _____ Date _____

26. For item 26, (a) check the box indicating which document identifies the correct, current **owner/assignee** of the patent, and (b) indicate the date of the document that you checked.

(Examiner Note: only one box is to be checked and completed.)

(a) Title Report, (b) Prepared [Give doc code and date]
 IFW doc code R3.73B Date 01/02/2013

(b) § 3.73 (b) Statement, (b) Filed [Give doc code and date]
 IFW doc code _____ Date _____

(Examiner Note: Give the latest document, unless the record reflects that an earlier document gives the current patent owner/assignee.)

EXAMINER	DATE	CRU SPE/TC SPRE REVIEW	DATE
	Ton 5/23/2013	/Andrew J. Fischer/	5/24/2013



US007241034C1

(12) INTER PARTES REEXAMINATION CERTIFICATE (624th)

United States Patent

Smith et al.

(10) Number: **US 7,241,034 C1**

(45) Certificate Issued: **Jun. 14, 2013**

(54) **AUTOMATIC DIRECTIONAL CONTROL SYSTEM FOR VEHICLE HEADLIGHTS**

(75) Inventors: **James E. Smith**, Berkey, OH (US);
Anthony B. McDonald, Perrysburg, OH (US)

(73) Assignee: **Balther Technologies, LLC**, Longview, TX (US)

Reexamination Request:

No. 95/001,621, May 16, 2011

No. 90/011,011, Jul. 10, 2010

Reexamination Certificate for:

Patent No.: **7,241,034**

Issued: **Jul. 10, 2007**

Appl. No.: **10/285,312**

Filed: **Oct. 31, 2002**

Related U.S. Application Data

(60) Provisional application No. 60/369,447, filed on Apr. 2, 2002, provisional application No. 60/356,703, filed on Feb. 13, 2002, provisional application No. 60/335,409, filed on Oct. 31, 2001.

(51) Int. Cl.

B60Q 1/00 (2006.01)

B06R 22/00 (2006.01)

(52) U.S. Cl.

USPC **362/465; 701/49**

(58) **Field of Classification Search**

None

See application file for complete search history.

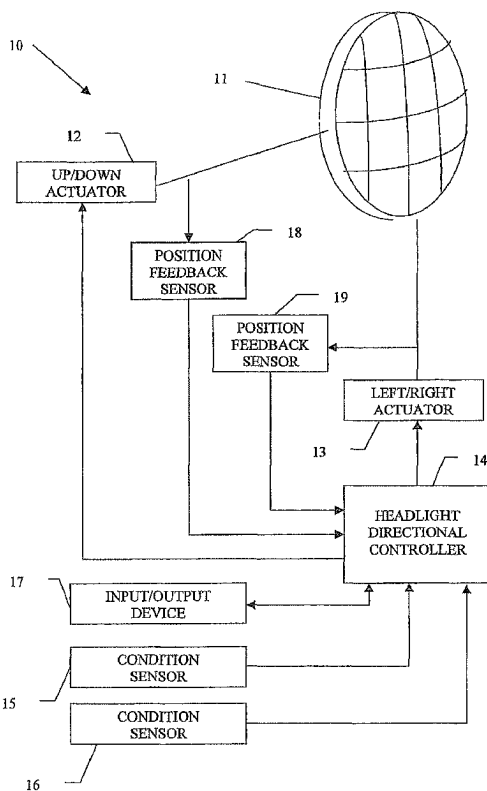
(56) **References Cited**

To view the complete listing of prior art documents cited during the proceedings for Reexamination Control Numbers 95/001,621 and 90/011,011, please refer to the USPTO's public Patent Application Information Retrieval (PAIR) system under the Display References tab.

Primary Examiner — My Trang Nu Ton

(57) **ABSTRACT**

A structure and method for operating a directional control system for vehicle headlights that is capable of altering the directional aiming angles of the headlights to account for changes in the operating conditions of the vehicle. One or more operating condition sensors may be provided that generate signals that are representative of a condition of the vehicle, such as road speed, steering angle, pitch, suspension height, rate of change of road speed, rate of change of steering angle, rate of change of pitch, and rate of change of suspension height of the vehicle. A controller is responsive to the sensor signal for generating an output signal. An actuator is adapted to be connected to the headlight to effect movement thereof in accordance with the output signal. The controller can include a table that relates values of sensed operating condition to values of the output signal. The controller is responsive to the sensor signal for looking up the output signal in the table.



1
INTER PARTES
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 316

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in italics indicates additions made to the patent.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

Claims 1-2 are cancelled.

Claims 3-5 are determined to be patentable as amended.

New claims 6-39 are added and determined to be patentable.

3. [The automatic directional control system defined in claim 1] *An automatic directional control system for a vehicle headlight, comprising:*

two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals changes by more than a predetermined minimum threshold amount to prevent at least one first one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and said two or more actuators each being adapted to be connected to the headlight to effect movement thereof in accordance with said at least one output signal; wherein at least one of said [sensor] two or more sensors generates [a signal] at least one of said two or more sensor signals that is representative of [the] a rate of change of the steering angle of the vehicle.

4. The automatic directional control system defined in claim [1] 3, wherein *at least one of said [sensor] two or more sensors generates a signal that is representative of [the] a rate of change of the pitch of the vehicle.*

5. The automatic directional control system defined in claim [1] 3, wherein *at least one of said [sensor] two or more sensors generates a signal that is representative of [the] a suspension height of the vehicle.*

6. *The automatic directional control system defined in claim 3, wherein said two or more sensors include a first sensor and a second sensor.*

7. *An automatic directional control system for a vehicle headlight, comprising:*

two or more sensors that are each adapted to generate a signal that is representative of at least one of a plurality of sensed conditions of a vehicle such that two or more sensor signals are generated, said sensed conditions including at least a steering angle and a pitch of the vehicle;

a controller that is responsive to said two or more sensor signals for generating at least one output signal only when at least one of said two or more sensor signals

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changes by more than a predetermined minimum threshold amount to prevent at least one of two or more actuators from being operated continuously or unduly frequently in response to relatively small variations in at least one of the sensed conditions; and

5 *said two or more actuators each being adapted to be connected to the vehicle headlight to effect movement thereof in accordance with said at least one output signal;*

10 *wherein said two or more sensors include a first sensor and a second sensor; and*

wherein said first sensor is adapted to generate a signal that is representative of a condition including the steering angle of the vehicle and said second sensor is adapted to generate a signal that is representative of a condition including the pitch of the vehicle.

8. *The automatic directional control system defined in claim 7, wherein said first sensor is physically separate from said second sensor.*

9. *The automatic directional control system defined in claim 7, further comprising one or more additional sensors for sensing one or more of a rate of change of road speed of the vehicle, a rate of change of the steering angle of the vehicle, a rate of change of the pitch of the vehicle, a suspension height of the vehicle, or a rate of change of suspension height of the vehicle.*

10. *The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the road speed of the vehicle.*

11. *The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the steering angle of the vehicle.*

12. *The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the rate of change of the pitch of the vehicle.*

13. *The automatic directional control system defined in claim 9, wherein at least one of said one or more additional sensors generate a signal that is representative of the suspension height of the vehicle.*

14. *The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that said two or more actuators include a first actuator and a second actuator and wherein the first actuator connected to the headlight to effect movement thereof in a first direction and the second actuator connected to the headlight to effect movement thereof in a second direction different from the first direction.*

15. *The automatic directional control system defined in claim 7, wherein the two or more actuators include a first actuator that is adapted to be connected to the headlight to effect movement thereof in a vertical direction.*

16. *The automatic directional control system defined in claim 15, wherein the two or more actuators include a second actuator that is adapted to be connected to the headlight to effect movement thereof in a horizontal direction.*

17. *The automatic directional control system defined in claim 7, wherein the two or more actuators include an electronically controlled mechanical actuator.*

18. *The automatic directional control system defined in claim 7, wherein the two or more actuators include a step motor.*

19. *The automatic directional control system defined in claim 7, wherein the two or more actuators include a servo motor.*

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20. The automatic directional control system defined in claim 7, wherein the two or more actuators include a microstepping motor capable of being operated in fractional step increments.

21. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the headlight is adjustably mounted on the vehicle such that a directional orientation at which a beam of light projects therefrom is capable of being adjusted both up and down relative to a horizontal reference position and left and right relative to a vertical reference position.

22. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that, while in a calibration mode, a directional orientation at which a beam of light projects is capable of being adjusted relative to the vehicle by manual operation of the two or more actuators.

23. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a microprocessor.

24. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller includes a programmable electronic controller.

25. The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes at least one position feedback sensor capable of providing a position feedback signal associated with at least one of the two or more actuators.

26. The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes a Hall Effect sensor.

27. The automatic directional control system defined in claim 25, wherein the at least one position feedback sensor includes an optical interrupter.

28. The automatic directional control system defined in claim 7, wherein the automatic directional control system further includes memory.

29. The automatic directional control system defined in claim 28, wherein the memory includes non-volatile memory.

30. The automatic directional control system defined in claim 28, wherein the memory is configured to store a predetermined reference position associated with the headlight.

31. The automatic directional control system defined in claim 7, wherein the automatic directional control system is

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configured such that the pitch of the vehicle is capable of being determined by sensing a front and a rear suspension height of the vehicle.

32. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the pitch of the vehicle is capable of being determined by a pitch sensor.

33. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle.

34. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the controller is programmed to be responsive to changes in a suspension height of the vehicle that occur at frequencies lower than a suspension rebound frequency of the vehicle, thereby ignoring frequency changes in the suspension height of the vehicle that are a result of bumps in a road.

35. The automatic directional control system defined in claim 7, wherein the automatic directional control system is configured such that the predetermined minimum threshold amount functions as a filter to minimize undesirable operation of at least one of the two or more actuators.

36. The automatic directional control system defined in claim 7, wherein said controller is further responsive to at least one of said two or more sensor signals to automatically activate one or more vehicle lights that are different than the headlight.

37. The automatic directional control system defined in claim 36, wherein said one or more vehicle lights that are different than the headlight include one or more lights for illuminating a road in front of the vehicle during a turn.

38. The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight.

39. The automatic directional control system defined in claim 7, wherein said controller is further responsive to a steering angle in excess of a predetermined magnitude for automatically activating one or more vehicle lights that are different than the headlight to extend an angular range of a road surface.

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