

**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

ADAPTIVE HEADLAMP TECHNOLOGIES, INC.	)	
	)	
<i>Plaintiff,</i>	)	
v.	)	Case No. 1:15-cv-00073
	)	
	)	
FCA US LLC,	)	<b><i>JURY TRIAL DEMANDED</i></b>
MASERATI NORTH AMERICA, INC, and	)	
FIAT CHRYSLER AUTOMOBILES N.V.	)	
	)	
<i>Defendants.</i>	)	
_____	)	

**FIRST AMENDED COMPLAINT**

Plaintiff Adaptive Headlamp Technologies, Inc. (“AHT”) files this amended complaint for infringement of U.S. Patent No. 7,241,034 (“the ’034 patent”) under 35 U.S.C. § 271 against defendants FCA US LLC (“Chrysler”), Maserati North America, Inc. (“Maserati”), and Fiat Chrysler Automobiles N.V. (“Fiat Chrysler”). Plaintiff seeks damages for Defendants’ infringement.

Plaintiff alleges as follows:

**PARTIES**

1. Plaintiff Adaptive Headlamp Technologies, Inc. is a Delaware corporation with a principal place of business at 600 Anton Blvd., Suite 1350, Costa Mesa, CA 92626.
2. Upon information and belief and after a reasonable opportunity for further discovery, Defendant Chrysler, formerly known as Chrysler Group and recently renamed FCA US LLC, is a company organized and existing under the laws of Delaware, having a principal place of business at 1000 Chrysler Dr., Auburn Hills, MI 48326. Chrysler is a business entity registered with the state of Delaware and regularly conducts and transacts business in this

jurisdiction, throughout the United States, and within the District of Delaware, either itself or through one or more subsidiaries, affiliates, business divisions, or business units. Defendant Chrysler can be served through its registered agent The Corporation Trust Company, Corporation Trust Center, 1209 Orange St., Wilmington, DE 19801.

3. Upon information and belief and after a reasonable opportunity for further discovery, Defendant Maserati is a corporation organized and existing under the laws of Delaware, having a principal place of business at 250 Sylvan Ave., Englewood Cliffs, NJ 07632. Maserati is a business entity registered with the state of Delaware and regularly conducts and transacts business in this jurisdiction, throughout the United States, and within the District of Delaware, either itself or through one or more subsidiaries, affiliates, business divisions, or business units. Defendant Maserati can be served through its registered agent The Corporation Trust Company, Corporation Trust Center, 1209 Orange St., Wilmington, DE 19801.

4. Upon information and belief and after a reasonable opportunity for further discovery, Defendant Fiat Chrysler is a company organized and existing under the laws of the Netherlands, having a principal place of business at 25 St James's St., London, SW1A 1HA, United Kingdom. Fiat Chrysler is the parent company of both Chrysler and Maserati.

#### **JURISDICTION AND VENUE**

5. This is an action for patent infringement arising under the patent laws of the United States, 35 U.S.C. § 1 et seq., alleging infringement of the '034 patent. A copy of the patent is attached hereto as Exhibit A and is incorporated herein by reference in its entirety.

6. The Court has exclusive subject matter jurisdiction over this action under 28 U.S.C. §§ 1331 and 1338(a).

7. This Court has personal jurisdiction over Defendants because Defendants have conducted business in this District and upon information and belief have infringed, contributed to infringement of, and/or actively induced others to infringe the '034 patent in this District as alleged in this Complaint. Chrysler and Maserati are registered entities in this District as described in paragraphs 2 and 3.

8. Venue is proper under 28 U.S.C. §§ 1391(b), 1391(c), and/or 1400(b).

### **PATENT-IN-SUIT**

9. The '034 patent entitled "Automatic Directional Control System for Vehicle Headlights" was duly and legally issued on July 10, 2007. See Exhibit A.

10. All right, title, and interest to this patent has been assigned to AHT.

11. Defendants are familiar with the '034 patent at least as of March 8, 2010 when it was asserted against Chrysler and Maserati in Civil Action No. 6:10-cv-00078-LED in the United States District Court for the Eastern District of Texas.

12. The matter was dismissed without prejudice when the patent was pulled into *inter partes* reexamination.

13. The '034 patent emerged with three of its claims intact as amended and thirty-four newly added claims.

### **INFRINGEMENT GOODS/SERVICES**

14. Chrysler has been and is now directly infringing, and/or inducing infringement by others, and/or contributing to the infringement by others of the '034 patent in the State of Delaware, in this judicial district, and elsewhere in the United States. Chrysler's infringements include, without limitation, making, using, offering for sale, and/or selling at least Chrysler's 300C and 300SRT automobiles. These automobiles include adaptive, self-leveling headlights

whose positions automatically change due to changes in steering angle and pitch of the vehicle after a threshold minimum is passed.

15. Such headlights fall within the scope of at least claim 7 of the reexamined '034 patent.

16. Claim 7 as it appears in the *Inter Partes* Reexamination Certificate provides:

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 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 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.

17. Given this, Chrysler's above-referenced vehicles fall within the scope of the '034 patent.

18. Maserati has been and is now directly infringing, and/or inducing infringement by others, and/or contributing to the infringement by others of the '034 patent in the State of Delaware, in this judicial district, and elsewhere in the United States. Maserati's infringements include, without limitation, making, using, offering for sale, and/or selling at least Maserati's GranTurismo Convertible. This automobile offers packages that include adaptive, self-leveling

headlights whose positions automatically change due to changes in steering angle and pitch of the vehicle after a threshold minimum is passed.

19. Such headlights fall within the scope of at least claim 7 of the reexamined '034 patent.

20. Claim 7 as it appears in the *Inter Partes* Reexamination Certificate provides:

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 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 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.

21. Given this, Maserati's above-referenced vehicles fall within the scope of the '034 patent.

### COUNT I

#### FIAT CHRYSLER AND CHRYSLER'S PATENT INFRINGEMENT UNDER 35 U.S.C. § 271 OF THE '034 PATENT

22. AHT incorporates by reference the allegations of paragraphs 1–21.

23. The '034 patent was duly and legally issued by the United States Patent and Trademark Office on June 1, 2004, after full and fair examination. A reexamination certificate issued on February 18, 2014.

24. Plaintiff is the assignee of all right, title, and interest in and to the '034 patent and possesses all rights of recovery under the '034 patent.

25. Fiat Chrysler and Chrysler have directly infringed the '034 patent at a minimum by making, using, offering to sell, and selling within the United States products and services that practice the inventions of the '034 patent, namely automatic directional control systems for vehicle headlights, and these products/services have no substantial non-infringing uses.

26. Fiat Chrysler and Chrysler have contributorily infringed the '034 patent and induced infringement of the '034 patent after the filing of the complaint.

27. Upon information and belief, Fiat Chrysler and Chrysler were aware of the '034 patent on or about March 8, 2010, in view of Civil Action No. 6:10-cv-00078 in the United States District Court for the Eastern District of Texas.

28. At a minimum, Fiat Chrysler and Chrysler were aware of the patent on or about August 20, 2014, when AHT sent Chrysler a letter informing it of the patent.

29. Despite knowledge of the patent and its infringement, Fiat Chrysler and Chrysler continue to manufacture, make, offer for sale, and sell goods that violate the patent.

30. In addition and upon belief, Fiat Chrysler and Chrysler encourage their customers to operate the products in an infringing manner.

31. Fiat Chrysler and Chrysler have caused and will continue to cause AHT damage by virtue of their continuing infringement.

32. AHT is entitled to recover from Fiat Chrysler and Chrysler the damages sustained by AHT as a result of Fiat Chrysler and Chrysler's acts in an amount subject to proof at trial.

33. Upon information and belief and after an opportunity for further discovery, Fiat Chrysler and Chrysler's infringement of the '034 patent is willful and deliberate at a minimum starting from at least on or around August 20, 2014.

## **COUNT II**

### **FIAT CHRYSLER AND MASERATI'S PATENT INFRINGEMENT UNDER 35 U.S.C. § 271 OF THE '034 PATENT**

34. AHT incorporates by reference the allegations of paragraphs 1–33.

35. The '034 patent was duly and legally issued by the United States Patent and Trademark Office on June 1, 2004, after full and fair examination. A reexamination certificate issued on February 18, 2014.

36. Plaintiff is the assignee of all right, title, and interest in and to the '034 patent and possesses all rights of recovery under the '034 patent.

37. Fiat Chrysler and Maserati have directly infringed the '034 patent at a minimum by making, using, offering to sell, and selling within the United States products and services that practice the inventions of the '034 patent, namely automatic directional control systems for vehicle headlights, and these products/services have no substantial non-infringing uses.

38. Fiat Chrysler and Maserati have contributorily infringed the '034 patent and induced infringement of the '034 patent after the filing of the complaint.

39. Upon information and belief, Fiat Chrysler and Maserati were aware of the '034 patent on or about March 8, 2010, in view of Civil Action No. 6:10-cv-00078 in the United States District Court for the Eastern District of Texas.

40. At a minimum, Fiat Chrysler and Maserati were aware of the patent on or about September 22, 2014, when AHT sent Maserati a letter informing it of the patent.

41. Despite knowledge of the patent and its infringement, Fiat Chrysler and Maserati continue to manufacture, make, offer for sale, and sell goods that violate the patent.

42. In addition and upon belief, Fiat Chrysler and Maserati encourage their customers to operate the products in an infringing manner.

43. Fiat Chrysler and Maserati have caused and will continue to cause AHT damage by virtue of their continuing infringement.

44. AHT is entitled to recover from Fiat Chrysler and Maserati the damages sustained by AHT as a result of Fiat Chrysler and Maserati's acts in an amount subject to proof at trial.

45. Upon information and belief and after an opportunity for further discovery, Fiat Chrysler and Maserati's infringement of the '034 patent is willful and deliberate at a minimum starting from at least on or around September 22, 2014.

#### **PRAYER FOR RELIEF**

WHEREFORE, Adaptive Headlamp Technologies, Inc. respectfully requests that the Court enter a judgment as follows:

- A. A judgment that Defendants have directly infringed the '034 patent, contributorily infringed the '034 patent, induced infringement of the '034 patent, and willfully infringed the '034 patent;
- B. A judgment and order requiring Defendants to pay Plaintiff damages under 35 U.S.C. § 284, including supplemental damages for any continuing post-verdict

infringement up until entry of the final judgment, with an accounting, as needed, and treble damages for willful infringement as provided by 35 U.S.C. § 284;

- C. A judgment and order requiring Defendants to pay Plaintiff pre-judgment and post-judgment interest on the damages awarded;
- D. A judgment and order requiring Defendants to pay Plaintiff the costs of this action (including all disbursements) and attorney's fees as provided by 35 U.S.C. § 285; and
- E. Such other and further relief as the Court deems just and equitable.

**DEMAND FOR JURY TRIAL**

Plaintiff hereby requests that all issues be determined by jury.

Dated: April 21, 2015

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