I	Case 5:21-cv-01468 Document 1 Fil	led 03/01/21 Page 1 of 9	
1	Bijal V. Vakil (CA State Bar No. 192878)		
2	bvakil@whitecase.com Shamita D. Etienne-Cummings (CA State Bar No. 202090)		
3	setienne@whitecase.com Henry Y. Huang (CA State Bar No. 252832)		
4	henry.huang@whitecase.com WHITE & CASE LLP 3000 El Camino Real Two Palo Alto Square, Suite 900 Palo Alto, CA 94306-2109 Telephone: 650.213.0300 Facsimile: 650.213.8158		
5			
6			
7			
8	Attorneys for Plaintiff Google LLC		
9	UNITED STATES	DISTRICT COURT	
10	UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA		
11	NORTHERN DISTRI	CI OF CALIFORNIA	
12			
13	GOOGLE LLC,	Case No. 5:21-cv-1468	
14	Plaintiff,	COMPLAINT FOR	
15		DECLARATORY JUDGMENT	
16	V.	DEMAND FOR JURY TRIAL	
17	ECOFACTOR, INC.,		
18	Defendant.		
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			

WHITE & CASE LLP Attorneys at Law Silicon valley Plaintiff Google LLC ("Google"), for its complaint against Defendant EcoFactor, Inc. ("EcoFactor"), alleges:

3

4

5

6

7

8

9

1

2

NATURE OF THE ACTION

1. This is an action for declaratory judgment of non-infringement of U.S. Patent Nos. 8,019,567 (the "567 patent"), 8,596,550 (the "550 patent"), 8,886,488 (the "488 patent"), and 10,612,983 (the "983 patent") (collectively, the "Asserted Patents," attached as Exhibits 1-4, respectively) against EcoFactor, pursuant to the Declaratory Judgment Act, 28 U.S.C. §§ 2201-02, and the patent laws of the United States, 35 U.S.C. § 100 et seq., and for other relief the Court deems just and proper.

10 2. Google requests this relief because EcoFactor has filed a complaint with the 11 International Trade Commission ("ITC"), Docket No. 3535, claiming that Google (among other 12 defendants) has infringed the Asserted Patents because Google designed, developed, 13 manufactured, tested, used, offered for sale, sold, and/or imported "smart thermostats, smart 14 HVAC systems, smart HVAC control systems, and components thereof." A true and correct copy 15 of EcoFactor's public ITC complaint is attached as Exhibit 5. The products asserted in the ITC 16 Investigation are the Nest Thermostat and the Nest Third Generation Learning Thermostat 17 ("Accused Products").

3. An actual and justiciable controversy therefore exists under 28 U.S.C. §§ 22012202 between Google and EcoFactor as to whether Google is infringing or has infringed the
Asserted Patents.

- 21
- 22

23

4. Plaintiff Google LLC is a subsidiary of Alphabet Inc. with its principal place of business located at 1600 Amphitheatre Parkway, Mountain View, California 94043.

THE PARTIES

5. Upon information and belief, Defendant EcoFactor, Inc. is a privately held
company organized under Delaware's laws, with a principal place of business at 441 California
Avenue, Number 2, Palo Alto, CA 94301.

27

28

6.

JURISDICTION AND VENUE

Google files this complaint against EcoFactor pursuant to the patent laws of the

- 1 -

WHITE & CASE LLP Attorneys At Law Silicon Valley

Case 5:21-cv-01468 Document 1 Filed 03/01/21 Page 3 of 9

WHITE & CASE LLP Attorneys At Law Silicon Valley 1

2

3

4

5

6

7

12

13

14

15

United States, Title 35 of the United States Code, with a specific remedy sought based upon the laws authorizing actions for declaratory judgment in the federal courts of the United States, 28 U.S.C. §§ 2201 and 2202, and under the patent laws of the United States, 35 U.S.C. §§ 1-390.

7. This Court has subject matter jurisdiction over this action, which arises under the United States' patent laws, pursuant to 28 U.S.C. §§ 1331, 1338(a), and 2201(a).

8. This Court has personal jurisdiction over EcoFactor, which has its principal place of business in Palo Alto, California.

9. Venue in this District is proper under 28 U.S.C. §§ 1391(b) because EcoFactor
resides in this District, and also because EcoFactor is subject to personal jurisdiction in this
District, and a substantial part of the events giving rise to Google's declaratory judgment claim of
non-infringement (such as the development of Nest thermostats) occurred in this District.

INTRADISTRICT ASSIGNMENT

10. Pursuant to Civil L.R. 3-2(c) and 3-5(b), this is an Intellectual Property Rights Action subject to assignment on a district-wide basis.

FACTUAL BACKGROUND

16 11. Google's headquarters at 1600 Amphitheatre Parkway, Mountain View, CA 94043
17 are located in this District. Google's mission is to organize the world's information and make it
18 universally accessible and useful. Over the past two decades, in service of that mission, Google
19 has become one of the world's most innovative technology companies.

12. EcoFactor's identification of allegedly infringing products originated at Nest Labs
that launched in 2010 in Palo Alto. The founders of Nest sought to save the planet while saving
consumers money with their energy usage. After merging with the Google family of companies
in 2014, the Nest product division has continued to operate primarily in the San Francisco Bay
Area. The vast majority of technical and business activities related to Nest have occurred and
continue to occur in this District.

EcoFactor filed an earlier lawsuit against Google at the International Trade
 Commission asserting patents related to the Asserted Patents. See In the matter of Certain Smart
 Thermostats, Smart HVAC Systems and Components Thereof, Investigation No. 337-TA-1185

(ITC, filed Nov. 22, 2019) (the "1185 Investigation"). The 1185 Investigation confirmed that the 2 venue at the center of the allegations is this District because EcoFactor's witnesses, Google's 3 source code (and the review of such source code), and Google's U.S. witnesses are all located in this District. 4

14. Google's Accused Products do not directly or indirectly infringe any asserted claim of the Asserted Patents, either literally or under the doctrine of equivalents. Google has not caused, directed, requested, or facilitated any such infringement, and it did not have any specific intent to do so.

9

1

5

6

7

8

10

11

12

13

14

15

16

<u>COUNT I:</u>

DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '567 PATENT

15. Google hereby restates and incorporates by reference the allegations set forth in paragraphs 1 through 14 of this Complaint as if fully set forth herein.

16. EcoFactor claims to own all right, title, and interest in the '567 patent by assignment.

17. In its ITC complaint, EcoFactor alleges that Google directly and indirectly infringes the '567 patent. See, e.g., Ex. 5 ¶ 100.

17 18. The Accused Products do not include or practice multiple claim limitations of the claims of the '567 patent, including, but not limited to: "evaluating changes in the operational 18 efficiency of an HVAC system over time," "at least one HVAC control system," "receiv[ing] 19 20 temperature measurements from at least a first structure," "receiv[ing] status of [an] HVAC system," "receiv[ing] measurements of outside temperatures," "compar[ing] said temperature 21 measurements from said first structure," "compar[ing] the inside temperature of said first 22 23 structure and the outside temperature over time to derive an estimation for the rate of change in inside temperature of said first structure," "compar[ing] an inside temperature recorded inside the 24 first structure with said estimation for the rate of change in inside temperature of said first 25 26 structure to determine whether the operational efficiency of the HVAC system has decreased over time," "analyz[ing] the changes in the operational efficiency over time to suggest a cause of 27 degradation," "compar[ing] [] temperature measurements from [a] first HVAC system and [a] 28

Case 5:21-cv-01468 Document 1 Filed 03/01/21 Page 5 of 9

second HVAC system and said outside temperature measurements over time to determine the relative efficiency of the first HVAC system and the second HVAC system," "comparing with one or more processors said temperature measurements from said first structure with outside 3 temperature measurements over time to derive expected temperature measurements of a rate of change in inside temperature," and "compar[ing] an inside temperature recorded inside the first structure with said expected temperature measurements to determine whether the operational efficiency of the HVAC system has decreased."

8 19. An actual and justiciable controversy therefore exists between Google and 9 EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims 10 of the '567 patent. A judicial declaration is necessary to determine the parties' respective rights 11 regarding the '567 patent.

Google seeks a judgment declaring that Google does not directly or indirectly 20. infringe any asserted claims of the '567 patent, either literally or under the doctrine of equivalents.

COUNT II:

DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '550 PATENT

17 21. Google hereby restates and incorporates by reference the allegations set forth in 18 paragraphs 1 through 14 of this Complaint as if fully set forth herein.

19 22. EcoFactor claims to own all right, title, and interest in the '550 patent by 20 assignment.

23. 21 In its ITC complaint, EcoFactor alleges that Google directly and indirectly infringes the '550 patent. See, e.g., Ex. 5 ¶ 102. 22

23 24. The Accused Products do not include or practice multiple claim limitations of the 24 claims of the '550 patent, including, but not limited to: "detecting manual changes to the setpoint 25 for a thermostatic controller," "using the stored data to predict a rate of change of temperatures inside the structure in response to at least changes in outside temperatures," "calculating [] 26 27 scheduled programming of setpoints in the thermostatic controller based on the predicted rate of change," "generating with one or more computer processors, a difference value based on 28

1

2

4

5

6

7

12

13

14

15

16

- 4 -

Case 5:21-cv-01468 Document 1 Filed 03/01/21 Page 6 of 9

comparing an actual setpoint at the first time for said thermostatic controller to the first automated setpoint for said thermostatic controller," "detecting a manual change to the first automated 3 setpoint by determining whether said actual setpoint and said first automated setpoint are the same or different based on said difference value," "[a] method for incorporating manual changes 4 5 to the setpoint for a thermostatic controller into long-term programming of said thermostatic controller," "compar[ing] the actual setpoint at the first time for said thermostatic controller to the first automated setpoint for said thermostatic controller," and "detecting a manual change to the first automated setpoint by determining whether said actual setpoint and said automated setpoint are the same or different."

10 25. An actual and justiciable controversy therefore exists between Google and EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims 11 12 of the '550 patent. A judicial declaration is necessary to determine the parties' respective rights 13 regarding the '550 patent.

26. Google seeks a judgment declaring that Google does not directly or indirectly infringe any asserted claims of the '550 patent, either literally or under the doctrine of equivalents.

COUNT III:

DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '488 PATENT

19 27. Google hereby restates and incorporates by reference the allegations set forth in 20 paragraphs 1 through 14 of this Complaint as if fully set forth herein.

28. EcoFactor claims to own all right, title, and interest in the '488 patent by 21 22 assignment.

29. 23 In its ITC complaint, EcoFactor alleges that Google directly and indirectly infringes the '488 patent. See, e.g., Ex. 5 ¶ 103. 24

30. The Accused Products do not include or practice multiple claim limitations of the 25 26 claims of the '488 patent, including, but not limited to: "calculating a value for the operational efficiency of [an HVAC] system," "at least one HVAC control system," "receiv[ing] inside 27 temperature measurements," "computer hardware that is configured to receive outside 28

WHITE & CASE LLP Attorneys At Law Silicon Valley

1

2

6

7

8

9

14

15

16

17

18

Case 5:21-cv-01468 Document 1 Filed 03/01/21 Page 7 of 9

temperature measurements," "calculat[ing] [] one or more predicted rates of change in said inside temperature measurements at said first location based on the status of the HVAC system," "relat[ing] said one or more predicted rates of change to said outside temperature measurements," "compar[ing] [] at least one predicted temperature based on the one or more predicted rates of change with an actual inside temperature measurement," and "said programmable thermostat is a source for current data regarding temperature inside said location."

An actual and justiciable controversy therefore exists between Google and
EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims
of the '488 patent. A judicial declaration is necessary to determine the parties' respective rights
regarding the '488 patent.

32. Google seeks a judgment declaring that Google does not directly or indirectly
infringe any asserted claims of the '488 patent, either literally or under the doctrine of
equivalents.

COUNT IV:

DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '983 PATENT

33. Google hereby restates and incorporates by reference the allegations set forth in paragraphs 1 through 14 of this Complaint as if fully set forth herein.

18 34. EcoFactor claims to own all right, title, and interest in the '983 patent by19 assignment.

20 35. In its ITC complaint, EcoFactor alleges that Google directly and indirectly
21 infringes the '983 patent. See, e.g., Ex. 5 ¶ 101.

22 36. The Accused Products do not include or practice multiple claim limitations of the 23 claims of the '983 patent, including, but not limited to: "receiv[ing] a first data from at least one 24 sensor, wherein the first data from the at least one sensor includes a measurement of at least one 25 characteristic of the user's building," "predict[ing], based at least in on the first data from the 26 sensor, the second data from the network connection, and the first temperature setpoint, the time 27 necessary for the HVAC system to operate in order to reach the temperature value by the time 28 value," "a measurement of the current temperature and humidity of the building by the sensor," "a

14

15

16

17

1

2

3

4

5

6

- 6 -

Case 5:21-cv-01468 Document 1 Filed 03/01/21 Page 8 of 9

WHITE & CASE LLP Attorneys At Law Silicon Valley 4

5

6

7

8

9

10

11

12

13

14

15

16

23

24

25

26

measurement of the current outdoor temperature," "analyzing the stored historical values of the
 first data and second data," and "calculat[ing] a performance characteristic of the HVAC system
 based at least on the historical values of the first data and second data."

37. An actual and justiciable controversy therefore exists between Google and EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims of the '983 patent. A judicial declaration is necessary to determine the parties' respective rights regarding the '983 patent.

38. Google seeks a judgment declaring that Google does not directly or indirectly infringe any asserted claims of the '983 patent, either literally or under the doctrine of equivalents.

PRAYER FOR RELIEF

WHEREFORE, Google prays for judgment as follows:

A. Declaring that Google Accused Products do not directly or indirectly infringe any asserted claims of the '567 patent, either literally or under the doctrine of equivalents;

B. Declaring that Google Accused Products do not directly or indirectly infringe any asserted claims of the '550 patent, either literally or under the doctrine of equivalents;

17 C. Declaring that Google Accused Products do not directly or indirectly infringe any
18 asserted claims of the '488 patent, either literally or under the doctrine of equivalents;

D. Declaring that Google Accused Products do not directly or indirectly infringe any
asserted claims of the '983 patent, either literally or under the doctrine of equivalents;

E. Declaring that judgment be entered in favor of Google and against EcoFactor on
Google's claims;

F. Finding that this is an exceptional case under 35 U.S.C. § 285;

G. Awarding Google its costs and attorneys' fees in connection with this action; and

H. Awarding Google such other and further relief as the Court deems just and proper.

JURY DEMAND

Pursuant to Federal Rule of Civil Procedure 38 and Civil Local Rule 3-6, Google demands
a jury trial on all issues and claims so triable.

	Case 5:21-cv-01468	Document 1 Filed 03/01/21 Page 9 of 9
1		
2	Dated: March 1, 2021	Respectfully submitted,
3		By: <u>/s/Bijal V. Vakil</u> Bijal V. Vakil
4		Bijal V. Vakil (CA State Bar No. 192878)
5		bvakil@whitecase.com Shamita D. Etienne-Cummings
6		(CA State Bar No. 202090) setienne@whitecase.com
7		Henry Y. Huang (CA State Bar No. 252832) henry.huang@whitecase.com
8		WHITE & CASE LLP 3000 El Camino Real
9		Two Palo Alto Square, Suite 900 Palo Alto, CA 94306-2109
10		Telephone: 650.213.0300 Facsimile: 650.213.8158
11		Attorneys for Plaintiff
12		Google LLC
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25 26		
26 27		
27 28		
20		- 8 -

COMPLAINT FOR DECLARATORY JUDGMENT CASE NO. 5:21-cv-1468