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9	RESIDÉO TECHNOLOGIES INC.			
10	UNITED STATES DISTRICT COURT			
11	FOR THE NORTHERN DIS	TRICT OF CALIFORNIA		
12	RESIDEO TECHNOLOGIES INC.,	Case No. 5:21-cv-1496		
13 14	Plaintiff, v.	COMPLAINT FOR DECLARATORY JUDGMENT		
15	ECOFACTOR, INC.	DEMAND FOR JURY TRIAL		
16	Defendant.			
17				
18		deo"), by and through its attorneys, files this		
19	Complaint against Defendant EcoFactor, Inc. ("Ec	, ,		
20	<u>NATURE O</u>			
21		gment of non-infringement of U.S. Patent Nos.		
22	8,423,322, 8,019,567, 10,612,983, and 8,886,488 (collectively, the "Asserted Patents," attached as			
23	Exhibits 1-4, respectively) against EcoFactor, pursuant to the Declaratory Judgment Act, 28 U.S.C			
24	§§ 2201-02, and the patent laws of the United States, 35 U.S.C. § 100 et seq., and for other relief the			
25	Court deems just and proper.			
26	2. Resideo requests this relief because EcoFactor has filed a complaint with the			
27	International Trade Commission ("ITC"), Docket No. 3535, claiming that Resideo, among other			
28	respondents, has infringed the Asserted Patents because Resideo designed, developed,			
		COMPLAINT FOR DECLARATORY JUDGMENT CASE NO. 5:21-cv-1496		

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1	manufactured, tested, used, offered for sale, sold, and/or imported "smart thermostat systems,		
2	smart HVAC systems, smart HVAC control systems, and components thereof." A true and correct		
3	copy of EcoFactor's public ITC complaint is attached as Exhibit 5 ("ITC Complaint"). The		
4	Resideo products accused in the ITC Complaint include at least the Wi-Fi Smart Thermostat, Wi-		
5	Fi 7-Day Programmable Thermostat, WiFi 9000 Color Touchscreen Thermostat, WiFi		
6	Programmable Thermostat, T5 Programmable Thermostat, T5+ Programmable Thermostat, T6		
7	Pro Smart Thermostat, The Round Smart Thermostat, T10 Pro Smart Thermostat, T9 Smart		
8	Thermostat, Wi-Fi Smart Color Thermostat, Wi-Fi Touchscreen Thermostat (collectively, the		
9	"Accused Products").		
10	3. An actual and justiciable controversy therefore exists under 28 U.S.C. §§ 2201-		
11	2202 between Resideo and EcoFactor as to whether Resideo is infringing or has infringed the		
12	Asserted Patents.		
13	THE PARTIES		
14	4. Plaintiff Resideo Technologies Inc. is a corporation organized and existing under		
15	the laws of Delaware. Resideo has a principal place of business at 901 E. 6th Street, Austin,		
16	Texas 78702.		
17	5. Upon information and belief, Defendant EcoFactor, Inc. is a privately held		
18	company organized and existing under the laws of the state of Delaware, having its principal place		
19	of business at 441 California Avenue, Number 2, Palo Alto, California 94306.		
20	JURISDICTION AND VENUE		
21	6. Resideo files this complaint against EcoFactor pursuant to the patent laws of the		
22	United States, Title 35 of the United States Code, with a specific remedy sought based upon the		
23	laws authorizing actions for declaratory judgment in the federal courts of the United States, 28		
24	U.S.C. §§ 2201 and 2202, and under the patent laws of the United States, 35 U.S.C. §§ 1-390.		
25	7. This Court has subject matter jurisdiction over this action, which arises under the		
26	United States' patent laws, pursuant to 28 U.S.C. §§ 1331, 1338(a), and 2201(a).		
27	8. This Court has personal jurisdiction over EcoFactor, which has its principal place		
28	of business in Palo Alto, California.		
	2 COMPLAINT FOR DECLARATORY HIDOMENT		

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1	9. A substantial controversy of sufficient immediacy and reality exists between the			
2	parties to warrant the issuance of a declaratory judgment. EcoFactor has filed a complaint in the			
3	ITC, alleging that Resideo directly and indirectly infringes claims of each of the Asserted Patents			
4	through Resideo's sale for importation, importation, and/or sale within the United States after			
5	importation of the Accused Products. Exhibit 5 (Public Complaint in Certain Smart Thermostat			
6	Systems, Smart HVAC Systems, Smart HVAC Control Systems, and Components Thereof, 337-DN-			
7	3535 (I.T.C. Feb. 26, 2021)) at ¶¶ 80, 120-126; Exhibits 6-9 (claim charts for Resideo accused			
8	products attached as Exhibits 31-33 and 35 to the ITC Complaint). Resideo denies infringement of			
9	the claims of the Asserted Patents.			
10	10. Venue in this District is proper under 28 U.S.C. §§ 1391(b)-(c) at least because			
11	EcoFactor resides in this District and also because EcoFactor is subject to personal jurisdiction in			
12	this District.			
13	INTRADISTRICT ASSIGNMENT			
14	11. Pursuant to Civil L.R. 3-2(c) and 3-5(b), this is an Intellectual Property Rights			
15	Action subject to assignment on a district-wide basis.			
16	FACTUAL BACKGROUND			
17	PATENTS-IN-SUIT			
18	12. U.S. Patent No. 8,423,322 (the "322 Patent"), entitled "System and Method for			
19	Evaluating Changes in the Efficiency of an HVAC System" and attached hereto as Exhibit 1, states on			
20	its cover that it was issued on April 16, 2013 to named inventors John Steinberg of Millbrae, California			
21	and Scott Hublou of Redwood City, California. The '322 Patent also states that the initial assignee was			
22	EcoFactor, Inc. of Millbrae, California. On information and belief, the '322 Patent is currently assigned			
23	to EcoFactor.			
24	13. U.S. Patent No. 8,019,567 (the "567 Patent"), entitled "System and Method for			
25	Evaluating Changes in the Efficiency of an HVAC System" and attached hereto as Exhibit 2, states on			
26	its cover that it was issued on September 13, 2011 to named inventors John Steinberg of Millbrae,			
27	California and Scott Hublou of Redwood City, California. The '567 Patent also states that the initial			
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	3 COMPLAINT FOR DECLARATORY JUDGMENT			
	3 COMPLAINT FOR DECLARATORY JUDGMENT			

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assignee was EcoFactor, Inc. of Millbrae, California. On information and belief, the '567 Patent is		
currently assigned to EcoFactor.		
14. U.S. Patent No. 10,612,983 (the "'983 Patent"), entitled "System and Method for		
Evaluating Changes in the Efficiency of an HVAC System" and attached hereto as Exhibit 3, states on		
its face that it was issued on April 7, 2020 to named inventors John Steinberg of Millbrae, California		
and Scott Hublou of Redwood City, California. The '983 Patent also states that the initial assignee was		
EcoFactor, Inc. of Redwood City, California. On information and belief, the '983 Patent is currently		
assigned to EcoFactor.		
15. U.S. Patent No. 8,886,488 (the "'488 Patent"), entitled "System and Method for		
Calculating the Thermal Mass of a Building" and attached hereto as Exhibit 4, states on its face that it		
was issued on November 11, 2014 to named inventors John Steinberg of Millbrae, California and Scott		
Hublou of Redwood City, California. The '488 Patent also states that the initial assignee was EcoFactor,		
Inc. of Millbrae, California. On information and belief, the '488 Patent is currently assigned to		
EcoFactor.		
DISPUTE BETWEEN RESIDEO AND ECOFACTOR		
CONCERNING THE ASSERTED PATENTS		
16. On February 26, 2021, EcoFactor filed the ITC Complaint alleging that Resideo, among		
others, purportedly infringes certain claims of the Asserted Patents. Ex. 5 at ¶¶ 80, 120-126; Exs. 6-9.		
EcoFactor's ITC Complaint alleges that the Accused Products purportedly infringe "either literally		
or pursuant to the doctrine of equivalents, and either directly or indirectly under a theory of		
inducement or contributory infringement." Ex. 5 at ¶ 122.		
17. Accordingly, an actual and justiciable controversy exists between Resideo and		
EcoFactor concerning whether Resideo infringes one or more claims of any of the Asserted Patents.		
Resideo now seeks a declaratory judgment that Resideo does not infringe the claims of the Asserted		
Patents.		
4 COMPLAINT FOR DECLARATORY JUDGMENT		

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1	FIRST CLAIM FOR RELIEF			
2	DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '322 PATENT			
3	18. This is a claim for declaratory judgment of non-infringement of the '322 Patent.			
4	Resideo hereby restates and incorporates by reference the allegations set forth in paragraphs 1			
5	through 17 of this Complaint as if fully set forth herein.			
6	19. EcoFactor claims to own all right, title, and interest in the '322 Patent by			
7	assignment. Ex. 5 at ¶ 43.			
8	20. In its ITC Complaint, EcoFactor alleges that Resideo directly and indirectly			
9	infringes the '322 Patent. See, e.g., Ex. 5 at ¶¶ 4, 123; Ex. 6.			
10	21. Resideo and its Accused Products do not include, practice, induce others to			
11	practice, or contribute to others practicing at least the following limitations of the claims of the			
12	'322 Patent: "one or more processors that receive measurements of outside temperatures from at			
13	least one source other than said HVAC system and compare said temperature measurements from			
14	said first structure, wherein said one or more processors compares the inside temperature of said			
15	first structure and the outside temperature over time" and "wherein said one or more processors			
16	compares an inside temperature recorded inside the first structure with an inside temperature of			
17	said first structure recorded at a different time to determine whether the operational efficiency of			
18	the HVAC system has decreased over time."			
19	22. An actual and justiciable controversy therefore exists between Resideo and			
20	EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims			
21	of the '322 Patent. A judicial declaration is necessary to determine the parties' respective rights			
22	regarding the '322 Patent.			
23	23. Resideo seeks a judgment declaring that Resideo does not directly or indirectly			
24	infringe any asserted claims of the '322 Patent, either literally or under the doctrine of equivalents.			
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	5 COMPLAINT FOR DECLARATORY JUDGMEN CASE NO. 5:21-cv-149			

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1	SECOND CLAIM FOR RELIEF
2	DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '567 PATENT
3	24. This is a claim for declaratory judgment of non-infringement of the '567 Patent.
4	Resideo hereby restates and incorporates by reference the allegations set forth in paragraphs 1
5	through 17 of this Complaint as if fully set forth herein.
6	25. EcoFactor claims to own all right, title, and interest in the '567 Patent by assignment.
7	Ex. 5 at ¶ 50.
8	26. In its ITC Complaint, EcoFactor alleges that Resideo directly and indirectly infringes
9	the '567 Patent. See, e.g., Ex. 5 at ¶¶ 4, 124; Ex. 7.
10	27. Resideo and its Accused Products do not include, practice, induce others to practice,
11	or contribute to others practicing at least the following limitations of the claims of the '567 Patent:
12	"one or more processors that receive measurements of outside temperatures from at least one source
13	other than said HVAC system and compare said temperature measurements from said first
14	structure," "wherein said one or more processors compares the inside temperature of said first
15	structure and the outside temperature over time to derive an estimation for the rate of change in
16	inside temperature of said first structure when said HVAC system is in a first state of repair,"
17	"wherein said one or more processors compares an inside temperature recorded inside the first
18	structure with said estimation for the rate of change in inside temperature of said first structure to
19	determine whether the operational efficiency of the HVAC system has decreased over time,"
20	"wherein if said operational efficiency has decreased, said one or more processors analyzes the
21	changes in the operational efficiency over time to suggest a cause of degradation," "comparing with
22	one or more processors said temperature measurements from said first structure with outside
23	temperature measurements over time to derive expected temperature measurements of a rate of
24	change in inside temperature of said first structure when the HVAC system is in a first state of
25	repair," "wherein the expected temperature measurements are based at least in part upon past
26	temperature measurements and based at least in part on outside temperature measurements," and
27	"wherein said one or more processors compares an inside temperature recorded inside the first
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1	structure with said expected temperature measurements to determine whether the operational			
2	efficiency of the HVAC system has decreased."			
3	28. An actual and justiciable controversy therefore exists between Resideo and			
4	EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims			
5	of the '567 Patent. A judicial declaration is necessary to determine the parties' respective rights			
6	regarding the '567 Patent.			
7	29. Resideo seeks a judgment declaring that Resideo does not directly or indirectly			
8	infringe any asserted claims of the '567 Patent, either literally or under the doctrine of equivalents.			
9	THIRD CLAIM FOR RELIEF	ļ		
10	DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '983 PATENT			
11	30. This is a claim for declaratory judgment of non-infringement of the '983 Patent.	ļ		
12	Resideo hereby restates and incorporates by reference the allegations set forth in paragraphs 1			
13	through 17 of this Complaint as if fully set forth herein.			
14	31. EcoFactor claims to own all right, title, and interest in the '983 Patent by assignment.	ļ		
15	Ex. 5 at ¶ 57.			
16	32. In its ITC Complaint, EcoFactor alleges that Resideo directly and indirectly infringes			
17	the '983 Patent. See, e.g., Ex. 5 at ¶¶ 4, 125; Ex. 8.			
18	33. Resideo and its Accused Products do not include, practice, induce others to practice,			
19	or contribute to others practicing at least the following limitations of the claims of the '983 Patent:			
20	"the one or more processors further configured to predict, based at least on the first data from the			
21	sensor, the second data from the network connection, and the first temperature setpoint, the time			
22	necessary for the HVAC system to operate in order to reach the temperature value by the time			
23	value" and "the processor configured to predict, based at least on analyzing the first data, the second			
24	data, and the first setpoint, the time necessary for a HVAC system at the user's building to operate			
25	in order to reach the temperature value by the time value."			
26	34. An actual and justiciable controversy therefore exists between Resideo and			
27	EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims	ļ		
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1	of the '983 Patent. A judicial declaration is necessary to determine the parties' respective rights			
2	regarding the '983 Patent.			
3	35. Resideo seeks a judgment declaring that Resideo does not directly or indirectly			
4	infringe any asserted claims of the '983 Patent, either literally or under the doctrine of equivalents.			
5	FOURTH CLAIM FOR RELIEF			
6	DECLARATORY JUDGMENT OF NON-INFRINGEMENT OF THE '488 PATENT			
7	36. This is a claim for declaratory judgment of non-infringement of the '488 Patent.			
8	Resideo hereby restates and incorporates by reference the allegations set forth in paragraphs 1			
9	through 17 of this Complaint as if fully set forth herein.			
10	37. EcoFactor claims to own all right, title, and interest in the '488 Patent by assignment.			
11	Ex. 5 at ¶ 71.			
12	38. In its ITC Complaint, EcoFactor alleges that Resideo directly and indirectly infringes			
13	the '488 Patent. See, e.g., Ex. 5 at ¶¶ 4, 126; Ex. 9.			
14	39. Resideo and its Accused Products do not include, practice, induce others to practice,			
15	or contribute to others practicing at least the following limitations of the claims of the '488 Patent:			
16	"wherein said one or more processors are configured to calculate one or more predicted rates of			
17	change in said inside temperature measurements at said first location based on the status of the			
18	HVAC system and to relate said one or more predicted rates of change to said outside temperature			
19	measurements," and "the processor configured to predict, based at least on analyzing the first data,			
20	the second data, and the first setpoint, the time necessary for a HVAC system at the user's building			
21	to operate in order to reach the temperature value by the time value."			
22	40. An actual and justiciable controversy therefore exists between Resideo and			
23	EcoFactor regarding whether any of the accused devices have infringed any of the asserted claims			
24	of the '488 Patent. A judicial declaration is necessary to determine the parties' respective rights			
25	regarding the '488 Patent.			
26	41. Resideo seeks a judgment declaring that Resideo does not directly or indirectly			
27	infringe any asserted claims of the '488 Patent, either literally or under the doctrine of equivalents.			
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1		PRAY	ER FOR RELIEF	
2	WHEREFORE, Resideo prays for judgment as follows:			
3	A. Declaring that Resideo does not directly or indirectly infringe any claim of the'322			
4	Patent, either literally or under the doctrine of equivalents;			
5	B. Decla	ring that Resideo does r	not directly or indir	rectly infringe any claim of the'567
6	Patent, either literally or under the doctrine of equivalents;			
7	C. Declaring that Resideo does not directly or indirectly infringe any claim of the '983			
8	Patent, either literally or under the doctrine of equivalents;			
9	D. Decla	ring that Resideo does r	not directly or indir	rectly infringe any claim of the '488
10	Patent, either literally or under the doctrine of equivalents;			
11	E. Declaring that judgment be entered in favor of Resideo and against EcoFactor on			
12	Resideo's claims;			
13	F. Order that this case is "exceptional" pursuant to 35 U.S.C. § 285 entitling Resideo			
14	to an award of its reasonable and necessary attorneys' fees, expenses, and costs, and pre-judgment			penses, and costs, and pre-judgment
15	interest thereon;			
16	G. Order awarding Resideo its costs of suit incurred in this action; and			
17	H. Granting to Resideo such other and further relief as this Court deems just and			
18	proper.			
19		JUI	RY DEMAND	
20	Pursuant to F	ederal Rule of Civil Pro	cedure 38 and Civ	il Local Rule 3-6, Resideo demands
21	a jury trial on all issues and claims so triable.			
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25	Dated: March 2, 202	1	STEPTOE	& JOHNSON LLP
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			9 Compi	LAINT FOR DECLARATORY JUDGMENT CASE NO. 5:21-cv-1496

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		10 COMPLAINT FOR DECLARAT CASI	ORY JUDGME E NO. 5:21-cv-1