I	Case 5:22-cv-04947-EJD Docume	ent 1 Filed 08/30/22 Page 1 of 37				
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18	UNITED STATES DISTRICT COURT					
19	NORTHERN DISTRICT OF CALIFORNIA					
20						
21	KAWASAKI JUKOGYO KABUSHIKI	Case No. 3:22-cv-04974				
22	KAISHA,	COMPLAINT FOR PATENT				
23	23 Plaintiff, INFRINGEMENT AND JURY DEMANI					
24	24 v. 24 RORZE CORPORATION AND RORZE 25 AUTOMATION, INC.,					
25						
26	26 Defendants.					
27	27					
28						
CROWELL & MORING LLP Attorneys at Law		COMPLAINT FOR PATENT INFRINGEMENT AND JURY DEMAND; CASE NO. 3:22-cv-04947				

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1	Plaintiff Kawasaki Jukogyo Kabushiki Kaisha, also known as Kawasaki Heavy Industries,				
2	Ltd. ("KHI" or "Plaintiff"), brings this Complaint against Rorze Corporation ("RCO") and Rorze				
3	Automation, Inc. ("RAI") (collectively "Rorze" or "Defendants"), and alleges as follows:				
4	NATURE OF THE ACTION				
5	1. This is a civil action for infringement of United States Reissue Patent Nos.				
6	RE47,909, RE46,465, RE48,031, RE45,772 and RE47,145 and entitled "Wafer Transfer				
7	Apparatus and Substrate Transfer Apparatus" ("the Patents"). True and correct copies of the				
8	Patents are attached as Exhibits A, B, C, D and E, respectively. This action arises under the				
9	patent laws of the United States, 35 U.S.C. § 1, et seq. Plaintiff seeks lost profits and/or a				
10	reasonable royalty and injunction.				
11	THE PARTIES				
12	2. Plaintiff KHI is a Japanese corporation organized and existing under the laws of				
13	Japan having its principal place of business at Kobe Crystal Tower, 1-1, Higashi-Kawasaki-cho 3-				
14	chome, Chuo-ku, Kobe-shi, Hyogo 650-8670, Japan.				
15	3. Upon information and belief, Defendant RCO is a Japanese corporation having its				
16	principal place of business at 1588-2 Michinoue, Kannabe-cho, Fukuyama-shi, Hiroshima 720-				
17	2104, Japan.				
18	4. Upon information and belief, Defendant RAI is a California corporation having its				
19	principal place of business at 41215 Albrae Street, Fremont, California 94538, U.S.A.				
20	5. Upon information and belief, Defendants make, offer to sell, sell and/or import				
21	wafer handling system products (the "Accused Products"), which infringe the Patents.				
22	6. RAI is the only U.Sbased subsidiary of RCO, and RCO markets the Accused				
23	Products in the United States through RAI. RCO, through RAI, has regular contact with its U.S.				
24	customers. Upon information and belief, Defendants RCO and RAI are in regular contact				
25	regarding the Accused Products, which are the subject of this Complaint.				
26	JURISDICTION AND VENUE				
27	7. This is an action for patent infringement arising under the Patent Laws of the				
28	United States, Title 35 of the United States Code.				
P v	-1- COMPLAINT FOR PATENT INFRINGEMENT AND JURY DEMAND; CASE NO. 3:22-cv-04947				

- 8. This Court has subject matter jurisdiction over the infringement action pursuant to
 28 U.S.C. §§ 1331 and 1338(a).
- 3 9. Upon information and belief, Defendant RCO is subject to this Court's general and 4 specific personal jurisdiction because RCO has purposefully availed itself of the privileges of 5 conducting business in the State of California; RCO has sought protection and benefit from the 6 laws of the State of California; RCO conducts business within the State of California; RCO has 7 caused harm to Plaintiff within the State of California; and Plaintiff's causes of action arise 8 directly from RCO's contacts and other activities in at least the State of California. 9 10. Upon information and belief, Defendant RAI is subject to this Court's general and 10 specific personal jurisdiction because RAI has purposefully availed itself of the privileges of 11 conducting business in the State of California; RAI has sought protection and benefit from the 12 laws of the State of California; RAI conducts business within the State of California; RAI has 13 caused harm to Plaintiff within the State of California; and Plaintiff's causes of action arise 14 directly from RAI's contacts and other activities in at least the State of California. RAI is also 15 incorporated in California. 16 11. Venue is proper in this Court pursuant to 28 U.S.C. §§ 1391 and 1400. 17 12. Defendant RCO has committed acts of patent infringement in this district. 13. 18 Defendant RAI has committed acts of patent infringement in this district. 19 14. Defendant RAI has maintained a regular and established place of business in this 20 district, which has a physical office at 41215 Albrae St, Fremont, California 94538. 21 15. Upon information and belief, Defendant RCO does not maintain any regular and 22 established place of business in the United States. Venue is therefore proper as to RCO in any 23 district in the United States. 24 **INTRADISTRICT ASSIGNMENT** 25 16. Because this action is an intellectual property action, an excepted category under 26 Civil Local Rule 3-2(c) and General Order No. 44, the action should be assigned on a district-27 wide basis. 28 ///

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1	THE ASSERTED PATENTS				
2	17. U.S. Reissue Patent No. RE47,909 ("the RE909 Patent") duly and legally reissued				
3	on March 17, 2020. See Exhibit A.				
4	18. U.S. Reissue Patent No. RE46,465 ("the RE465 Patent") duly and legally reissued				
5	on July 4, 2017. <i>See</i> Exhibit B.				
6	19. U.S. Reissue Patent No. RE48,031 ("the RE031 Patent") duly and legally reissued				
7	on June 2, 2020. See Exhibit C.				
8	20. U.S. Reissue Patent No. RE45,772 ("the RE772 Patent") duly and legally reissued				
9	on October 20, 2015. See Exhibit D.				
10	21. U.S. Reissue Patent No. RE47,145 ("the RE145 Patent") duly and legally reissued				
11	on November 27, 2018. See Exhibit E.				
12	22. Defendants have infringed at least the claims of the Patents identified below				
13	("Asserted Claims"). Each Asserted Claim of the Patents is valid and enforceable.				
14	THE ACCUSED PRODUCTS				
15	23. The Accused Products include, for example, stockers, such as N2-BWS Series				
16	shown in Exhibits F^1 and G^2 , sorters and Equipment Front End Module (EFEM) products which				
17	use the inventions covered by the Asserted Claims.				
18	24. By way of example, claim 15 of the RE909 Patent includes "A wafer transfer				
19	apparatus for transferring a wafer, comprising: an interface space forming portion defining an				
20	interface space, the interface space forming portion having a front wall and a rear wall which are				
21	arranged at a predetermined interval in forward and backward directions, the front wall having a				
22	front opening formed therein, and the rear wall having a rear opening formed therein."				
23	25. This limitation is met by the N2-BWS1600 product, for example. As generally				
24	shown below, the N2-BWS1600 product includes an interface space forming portion having a				
25	front wall and a rear wall, and the front wall has a front opening and the rear wall has a rear				
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27	¹ Exhibit F is obtained from https://www.rorze.com/en/products/n2-bws/.				
28	BWS_EN.pdf.				
.P w	-3- COMPLAINT FOR PATENT INFRINGEMENT AND JURY DEMAND; CASE NO. 3:22-cv-04947				



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a robot hand for holding the wafer, the robot arm being configured to be angularly displaced about the pivot axis."

3 33. The N2-BWS1600 product meets this limitation. As generally shown below, the N2-BWS1600 product has a robot arm, angularly displaced about the pivot axis, which includes a plurality of link members connected with one another in succession from the proximal end to the distal end, in which the proximal end is connected with the base, and the distal end is provided with a robot hand for holding a wafer. *See* also Ex. G (main specifications).



17 Ex. G annotated.

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18 34. Claim 15 of the RE909 Patent further includes "a drive unit configured to drive
19 each of the link members of the robot arm so that the link members are angularly displaced,
20 individually, about each corresponding axis."

35. The N2-BWS1600 product meets this limitation. The N2-BWS1600 product
includes a drive unit for moving the link members of the robot arm individually about each
corresponding axis. *See* Rorze Taiwan. "RORZE Taiwan 樂華科技 2016 年產品影片-Sorter." *YouTube*, Sep. 8, 2016, https://www.youtube.com/watch?v=a1xvOJqsH0E (last visited Aug. 29,
2022) ("Rorze Video"). The Rorze Video shows that the link members of the robot arm are
moved individually about each corresponding axis.

27 28 36. Claim 15 of the RE909 Patent further includes "wherein, in a minimum

1 transformed state where the robot arm is transformed such that a distance defined from the pivot 2 axis to an arm portion which is farthest in a radial direction relative to the pivot axis is minimum, 3 a minimum rotation radius R, as the distance defined from the pivot axis to the arm portion which 4 is the farthest in the radial direction relative to the pivot axis, is set to exceed 1/2 of a length B in 5 the forward and backward directions of the interface space, the length B corresponding to a length 6 between the front wall and the rear wall of the interface space forming portion, and is further set 7 to be equal to or less than a subtracted value (B-L0) to be obtained by subtracting a distance L0 in 8 the forward and backward directions from the rear wall of the interface space forming portion to 9 the pivot axis, from the length B in the forward and backward directions of the interface space (i.e., $B/2 < R \le B-L0$)." 10

The N2-BWS1600 product meets this limitation. The figure as generally shown
below confirms that the N2-BWS1600 product satisfies B/2<R≤B-L0.



Ex. G annotated.

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38. Lastly, claim 15 of the RE909 Patent includes "the minimum rotation radius R is set to be equal to or less than an allowable length (B-L0-E) to be obtained by subtracting the distance L0 in the forward and backward directions from the rear wall of the interface space forming portion to the pivot axis and a length E of a robot invasion restricted region, which is set for the FOUP opener and is measured from the front wall in the forward and backward directions toward the rear wall, from the length B in the forward and backward directions of the interface space (i.e., R \leq B-L0-E)."

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1 39. The length E of each of the robot invasion restricted regions is set for the FOUP 2 opener and located in the E Region as generally shown in the figure below. The figure below 3 confirms that the minimum rotation radius R of the N2-BWS1600 product satisfies the claim 4 limitation of R≤B-L0-E. 5 L0 6 В 7 R 8 E Region 9 10 11 12

Ex. G annotated.

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40. By way of further example, claim 15 of the RE465 Patent includes "A wafer
carrying robot configured to be used for a wafer transfer apparatus, the wafer transfer apparatus
having a front wall, a rear wall and a FOUP opener, the front wall having a front opening, the
FOUP opener being used for opening and closing the front opening."

41. As generally shown below, the N2-BWS1600 product, for example, has a wafer carrying robot (blue), the wafer transfer apparatus having a front wall and a rear wall (red), and FOUP openers (green). Each of the FOUP openers opens and closes the FOUP opener side door and the FOUP side door.



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plurality of link members connected with one another in succession from the proximal end to the
 distal end, in which the proximal end is connected with the base, and the distal end is provided
 with a robot hand for holding a wafer. *See* also Ex. G (main specifications).





52. By way of further example, claim 29 of the RE031 Patent includes "A substrate
transfer apparatus for transferring a substrate, comprising: an interface space forming portion
defining an interface space, the interface space forming portion having a front wall and a rear wall
which are arranged at a predetermined interval in forward and backward directions, the front wall
having a front opening formed therein, a front face plate constituting part of the front wall, and
the rear wall having a rear opening formed therein."

7 53. This limitation is met by the N2-BWS1600 product, for example. As generally
8 shown below, the N2-BWS1600 product includes an interface space forming portion having a
9 front wall and a rear wall, and the front wall has a front opening and the rear wall has a rear
10 opening.



20 Ex. G annotated.

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54. Claim 29 of the RE031 Patent further recites "a FOUP opener including an openerside door, the FOUP opener being configured to open and close a substrate container which
includes a FOUP-side door and is located adjacent to the interface space and the front opening of
the interface space forming portion, the FOUP opener being configured to open and close the
opener-side door and the FOUP-side door."

55. This limitation is met by the N2-BWS1600 product. As generally shown below,
the N2-BWS1600 product has four FOUP openers located adjacent to the interface space and the
front opening of the interface space forming portion. Each of the FOUP openers opens and closes







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1 in the forward and backward directions of the interface space (i.e., B/2<R≤B-L0)." 2 65. This limitation is met by the N2-BWS1600 product. As generally shown below, 3 the N2-BWS1600 product satisfies L0=Q+T2. Further, the figure below confirms that the N2-4 BWS1600 product satisfies $B/2 < R \le B-L0$. Q 5 L0 6 В 7 R 8 9 10 11 12 Ex. G annotated. 13 66. Claim 29 of the RE031 Patent further includes "the minimum rotation radius R is 14 set to be equal to or less than an allowable length (B-L0-E) to be obtained by subtracting the 15 distance L0 and a length E of a robot invasion restricted region, which is set for the FOUP opener 16 and is measured from the front face plate in the forward and backward directions toward the rear 17 wall, from the length B in the forward and backward directions of the interface space (i.e., R≤B-18 L0-E)." 19 67. The length E of each of the robot invasion restricted regions is set for the FOUP 20 opener and located in the E Region as generally shown in the figure below. The figure below 21 confirms that the minimum rotation radius R of the N2-BWS1600 product satisfies the claim 22 limitation of $R \leq B-L0-E$. 23 24 25 26 27 28

Case 5:22-cv-04947-EJD Document 1 Filed 08/30/22 Page 18 of 37 1 Q 2 L0 3 В R 4 5 E Region 6 7 8 9 10 Ex. G annotated. 11 68. Lastly, claim 29 of the RE031 Patent includes "the robot invasion restricted region 12 is defined by a movable region in which the opener-side door and the FOUP-side door move 13 relative to the substrate container." 14 69. This limitation is met by the N2-BWS1600 product. In the N2-BWS1600 product, 15 as shown in the Rorze video, the FOUP opener side door and the FOUP side door move relative 16 to the FOUP to define a robot invasion restricted region. 17 70. By way of further example, claim 1 of the RE772 Patent includes "A wafer 18 transfer apparatus for transferring a wafer, comprising: an interface space forming portion 19 defining an interface space, the interface space forming portion having a front wall and a rear wall 20 which are arranged at a predetermined interval in forward and backward directions, the front wall 21 having a front opening formed therein, and the rear wall having a rear opening formed therein." 22 71. This limitation is met by the N2-BWS1600 product, for example. As generally 23 shown below, the N2-BWS1600 product includes an interface space forming portion having a 24 front wall and a rear wall, and the front wall has a front opening formed therein and the rear wall 25 has a rear opening formed therein. 26 27 28





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and a distal end, the robot arm including a plurality of link members connected with one another in succession in a direction from the proximal end to the distal end, the proximal end being 3 connected with the base, the distal end being provided with a robot hand for holding the wafer, 4 the robot arm being configured to be angularly displaced about the pivot axis."

5 79. The N2-BWS1600 product meets this limitation. As generally shown below, the 6 N2-BWS1600 product has a robot arm, angularly displaced about the pivot axis, which includes a 7 plurality of link members connected with one another in succession from the proximal end to the 8 distal end, in which the proximal end is connected with the base, the distal end is provided with a 9 robot hand for holding a wafer. See also Ex. G (main specifications).



80. Claim 1 of the RE772 Patent further includes "a drive unit configured to drive each of the link members of the robot arm so that the link members are angularly displaced, individually, about each corresponding axis."

The N2-BWS1600 product meets this limitation. The N2-BWS1600 product 81. includes a drive unit for moving the link members of the robot arm individually about each corresponding axis. See Rorze Video (showing that the link members of the robot arm are moved individually about each corresponding axis).

82. Claim 1 of the RE772 Patent further includes "wherein, in a minimum transformed state where the robot arm is transformed such that a distance defined from the pivot axis to an

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1 arm portion which is farthest in a radial direction relative to the pivot axis is minimum, a 2 minimum rotation radius R, as the distance defined from the pivot axis to the arm portion which 3 is the farthest in the radial direction relative to the pivot axis, is set to exceed 1/2 of a length B in 4 the forward and backward directions of the interface space, the length B corresponding to a length 5 between the front wall and the rear wall of the interface space forming portion, and is further set 6 to be equal to or less than a subtracted value (B-L0) to be obtained by subtracting a distance L0 in 7 the forward and backward directions from the rear wall of the interface space forming portion to 8 the pivot axis, from the length B in the forward and backward directions of the interface space 9 (i.e., $B/2 < R \le B-L0$)."

10 83. The N2-BWS1600 product meets this limitation as shown below. The figure as
11 generally shown below confirms that the N2-BWS1600 product satisfies B/2<R≤B-L0.



Ex. G annotated.

2184.Claim 1 of the RE772 Patent further includes "the minimum rotation radius R is22set to be equal to or less than an allowable length (B-L0-E) to be obtained by subtracting the23distance L0 in the forward and backward directions from the rear wall of the interface space24forming portion to the pivot axis and a length E of a robot invasion restricted region, which is set25for the FOUP opener and is measured from the front wall in the forward and backward directions26toward the rear wall, from the length B in the forward and backward directions of the interface27space (i.e., R≤B-L0-E)."



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85. The length E of each of the robot invasion restricted regions is set for the FOUP

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opener and located in the E Region as generally shown in the figure below. The figure below 2 confirms that the minimum rotation radius R of the N2-BWS1600 product satisfies the claim 3 limitation of $R \leq B-L0-E$.



87. The N2-BWS1600 product meets this limitation. For example, the FOUP opener 17 of the N2-BWS1600 product moves in the forward and backward directions to thereby define 18 robot invasion restricted regions, which are measurable in the forward and backward directions, 19 as shown, for example, by the pictures below captured from the Rorze Video. 20

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Id., around 37 secs.

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Id., around 37 secs.

88. Also, The FOUP opener of the N2-BWS1600 product opens and closes the opener side door and the FOUP-side door.

89. By way of further example, claim 17 (which depends from claim 15) of the RE145 Patent includes "A wafer transfer apparatus for transferring a wafer, comprising: an interface space forming portion defining an interface space, the interface space forming portion having a front wall and a rear wall which are arranged at a predetermined interval in forward and backward directions, the front wall having a front opening formed therein, and the rear wall having a rear opening formed therein."

90. This limitation is met by the N2-BWS1600 product, for example. As generally shown below, the N2-BWS1600 product includes an interface space forming portion having a front wall and a rear wall, and the front wall has a front opening formed therein and the rear wall has a rear opening formed therein.



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97. Claim 17 (which depends from claim 15) of the RE145 Patent further includes "a robot arm having a proximal end and a distal end, the robot arm including a plurality of link members connected with one another in succession in a direction from the proximal end to the distal end, the proximal end being connected with the base, the distal end being provided with a robot hand for holding the wafer, the robot arm being configured to be angularly displaced about the pivot axis."

98. The N2-BWS1600 product meets this limitation. As generally shown below, the N2-BWS1600 product has a robot arm, angularly displaced about the pivot axis, which includes a plurality of link members connected with one another in succession from the proximal end to the distal end, in which the proximal end is connected with the base, and the distal end is provided



with a robot hand for holding a wafer. See also Ex. G (main specifications).

Ex. G annotated.

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99. Claim 17 (which depends from claim 15) of the RE145 Patent further includes "a drive unit configured to drive the robot arm."

100. The N2-BWS1600 product meets this limitation. The N2-BWS1600 product includes a drive unit for moving the link members of the robot arm individually about each corresponding axis. *See* Rorze Video (showing that the link members of the robot arm are moved individually about each corresponding axis).

1 101. Claim 17 (which depends from claim 15) of the RE145 Patent further includes 2 "wherein, in a minimum transformed state where the robot arm is transformed such that a 3 distance defined from the pivot axis to an arm portion which is farthest in a radial direction 4 relative to the pivot axis is minimum, a minimum rotation radius R, as the distance defined from 5 the pivot axis to the arm portion which is the farthest in the radial direction relative to the pivot 6 axis, is set to exceed 1/2 of a length B in the forward and backward directions of the interface 7 space, the length B corresponding to a length between the front wall and the rear wall of the 8 interface space forming portion (i.e., B/2 < R)."

9 102. The N2-BWS1600 product meets this limitation. The figure generally shown
10 below confirms that the N2-BWS1600 product satisfies the claim limitation of B/2<R.



19 Ex. G annotated.

103. Claim 17 (which depends from claim 15) of the RE145 Patent further includes "the minimum rotation radius R is set to be equal to or less than an allowable length (B-E) to be obtained by subtracting a length E of a robot invasion restricted region, which is set for the FOUP opener and is measured from the front wall in the forward and backward directions toward the rear wall, from the length B (i.e., R \leq B-E), and the minimum rotation radius R is set so that the robot arm in the minimum transformed state cannot enter the robot invasion restricted region."

104. The length E of each of the robot invasion restricted regions is set for the FOUP
opener and located in the E Region as generally shown in the figure below. The figure below
confirms that the minimum rotation radius R of the N2-BWS1600 product satisfies the claim



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9	Ex. G annotated.					
10	111. The Accused Products, and Rorze's acts of importation, offer for sale, and/or sale					
11	of the Accused Products are in competition with Plaintiff and its products.					
12	<u>COUNT I – PATENT INFRINGEMENT: U.S. Reissue Patent No. RE47,909</u>					
13	112. Plaintiff repeats and incorporates by reference the allegations set forth in					
14	Paragraphs 1–111 above.					
15	113. Rorze has infringed and is continuing to infringe at least claim 15 of the RE909					
16	Patent, literally and/or under the doctrine of equivalents, by making, using, offering to sell, selling					
17	and/or supplying in or from the United States, the Accused Products, and/or by inducing and/or					
18	contributing to such conduct by Rorze's customers or other persons or entities, without authority					
19	and in violation of 35 U.S.C. § 271(a), (b) and/or (c).					
20	114. Rorze does not have any license or other authority from Plaintiff or any other					
21	person or entity to practice the subject matter claimed by the RE909 Patent.					
22	115. The notice provisions of 35 U.S.C. § 287 with respect to the RE909 Patent are					
23	satisfied at least as of the date of receipt of the correspondence dated December 8, 2021 from					
24	KHI to RCO that identified the RE909 Patent. See Exhibit H.					
25	116. Rorze's infringing acts, occurring at least after receipt of the December 8, 2021					
26	correspondence, constitute willful infringement of the RE909 Patent, rendering this an					
27	exceptional case pursuant to 35 U.S.C. § 285.					
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P N	-32- COMPLAINT FOR PATENT INFRINGEMENT AND JURY DEMAND; CASE NO. 3:22-cv-04947					

1	<u>COUNT II – PATENT INFRINGEMENT: U.S. Reissue Patent No. RE46,465</u>					
2	117. Plaintiff repeats and incorporates by reference the allegations set forth in					
3	Paragraphs 1–116 above.					
4	118. Rorze has infringed and is continuing to infringe at least claim 15 of the RE465					
5	Patent, literally and/or under the doctrine of equivalents, by making, using, offering to sell, selling					
6	and/or supplying in or from the United States, the Accused Products, and/or by inducing and/or					
7	contributing to such conduct by Rorze's customers or other persons or entities, without authority					
8	and in violation of 35 U.S.C. § 271(a), (b) and/or (c).					
9	119. Rorze does not have any license or other authority from Plaintiff or any other					
10	person or entity to practice the subject matter claimed by the RE465 Patent.					
11	120. The notice provisions of 35 U.S.C. § 287 with respect to the RE465 Patent are					
12	satisfied at least as of the date of receipt of the correspondence dated December 8, 2021 from					
13	KHI to RCO that identified the RE465 Patent. See Ex. H.					
14	121. Rorze's infringing acts, occurring at least after receipt of the December 8, 2021					
15	correspondence, constitute willful infringement of the RE465 Patent, rendering this an					
16	exceptional case pursuant to 35 U.S.C. § 285.					
17	COUNT III – PATENT INFRINGEMENT: U.S. Reissue Patent No. RE48,031					
18	122. Plaintiff repeats and incorporates by reference the allegations set forth in					
19	Paragraphs 1–121 above.					
20	123. Rorze has infringed and is continuing to infringe at least claim 29 of the RE031					
21	Patent, literally and/or under the doctrine of equivalents, by making, using, offering to sell, selling					
22	and/or supplying in or from the United States, the Accused Products, and/or by inducing and/or					
23	contributing to such conduct by Rorze's customers or other persons or entities, without authority					
24	and in violation of 35 U.S.C. § 271(a), (b) and/or (c).					
25	124. Rorze does not have any license or other authority from Plaintiff or any other					
26	person or entity to practice the subject matter claimed by the RE031 Patent.					
27	125. The notice provisions of 35 U.S.C. § 287 with respect to the RE031 Patent are					
28	satisfied at least as of the date of receipt of the correspondence dated December 8, 2021 from					
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1	KHI to RCO that identified the RE031 Patent. See Ex. H.					
2	126. Rorze's infringing acts, occurring at least after receipt of the December 8, 2021					
3	correspondence, constitute willful infringement of the RE031 Patent, rendering this an					
4	exceptional case pursuant to 35 U.S.C. § 285.					
5	COUNT IV – PATENT INFRINGEMENT: U.S. Reissue Patent No. RE45,772					
6	127. Plaintiff repeats and incorporates by reference the allegations set forth in					
7	Paragraphs 1–126 above.					
8	128. Rorze has infringed and is continuing to infringe at least claim 1 of the RE772					
9	Patent, literally and/or under the doctrine of equivalents, by making, using, offering to sell, selling					
10	and/or supplying in or from the United States, the Accused Products, and/or by inducing and/or					
11	contributing to such conduct by Rorze's customers or other persons or entities, without authority					
12	and in violation of 35 U.S.C. § 271(a), (b) and/or (c).					
13	129. Rorze does not have any license or other authority from Plaintiffs or any other					
14	person or entity to practice the subject matter claimed by the RE772 Patent.					
15	130. The notice provisions of 35 U.S.C. § 287 with respect to the RE772 Patent are					
16	satisfied as early as receipt of the correspondence dated June 14, 2017 from KHI to RCO that					
17	identified the RE772 Patent. See Exhibit I.					
18	131. Rorze's infringing acts, occurring as early as receipt of the June 14, 2017					
19	correspondence, constitute willful infringement of the RE772 Patent, rendering this an					
20	exceptional case pursuant to 35 U.S.C. § 285.					
21	COUNT V – PATENT INFRINGEMENT: U.S. Reissue Patent No. RE47,145					
22	132. Plaintiff repeats and incorporates by reference the allegations set forth in					
23	Paragraphs 1–131 above.					
24	133. Rorze has infringed and is continuing to infringe at least claim 17 of the RE145					
25	Patent, literally and/or under the doctrine of equivalents, by making, using, offering to sell, selling					
26	and/or supplying in or from the United States, the Accused Products, and/or by inducing and/or					
27	contributing to such conduct by Rorze's customers or other persons or entities, without authority					
28	and in violation of 35 U.S.C. § 271(a), (b) and/or (c).					
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1	134.	Rorze does not have any license or other authority from Plaintiffs or any other				
2	person or ent	ity to practice the subject matter claimed by the RE145 Patent.				
3	135.	The notice provisions of 35 U.S.C. § 287 with respect to the RE145 Patent are				
4	satisfied at le	ast as of the date of receipt of the correspondence dated December 8, 2021 from				
5	KHI to RCO that identified the RE145 Patent. See Ex. H.					
6	136.	Rorze's infringing acts, occurring at least after receipt of the December 8, 2021				
7	corresponden	ce, constitute willful infringement of the RE145 Patent, rendering this an				
8	exceptional c	ase pursuant to 35 U.S.C. § 285.				
9		PRAYER FOR RELIEF				
10	WHE	REFORE, Plaintiff respectfully requests for judgment:				
11	1.	adjudging that Defendant Rorze has infringed and is continuing to infringe the				
12		RE909 Patent;				
13	2.	adjudging that Defendant Rorze has infringed and is continuing to infringe the				
14		RE465 Patent;				
15	3.	adjudging that Defendant Rorze has infringed and is continuing to infringe the				
16		RE031 Patent;				
17	4.	adjudging that Defendant Rorze has infringed and is continuing to infringe the				
18		RE772 Patent;				
19	5.	adjudging that Defendant Rorze has infringed and is continuing to infringe the				
20		RE145 Patent;				
21	6.	awarding Plaintiff damages adequate to compensate for Rorze's infringement of				
22		the RE909, RE465, RE031, RE772 and RE145 Patents together with interest and				
23		costs as fixed by the Court, which damages include lost profits, and in no event				
24		less than a reasonable royalty;				
25	7.	enjoining Rorze or any of its agents or related entities from making, using, offering				
26		to sell, selling, and/or supplying in or from the United States the Accused Products				
27		and any other systems and components of systems or methods that practice, or				
28		otherwise aiding or inducing Rorze's customers or other persons or entities to				
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1	practice, the subject matter of the RE909, RE465, RE031, RE772 and RE145					
2		Patents, pursuar	nt to 35 U.S.C. §	283;		
3	8.	adjudging that R	Rorze's continue	ed infrin	gement of	the RE909, RE465, RE031,
4		RE772 and RE145 Patents is willful and increasing up to treble all damages				
5		awarded to Plain	ntiff for such inf	fringeme	ent, pursua	nt to 35 U.S.C. § 284;
6	9.	declaring this exception case under 35 U.S.C. § 285 and awarding Plaintiff its				
7		attorneys' fees,	costs, and exper	nses; and	d	
8	10.	granting Plaintif	ff such other and	d further	r relief as tl	nis Court deems just and proper.
9	JURY DEMAND					
10	Pursu	ant to Federal Rul	les of Civil Proc	edure 3	8 and 39, F	laintiff asserts its rights under
11	the Seventh Amendment to the United States Constitution and demand a trial by jury on all issues					
12	triable as suc	h.				
13	Dated: Augu	st 30, 2022		CRO	OWELL &	MORING LLP
14						
15				By:	/s/ Thomas F	s F. Koegel
16					Molly A. J	lones
17					Robert S.	Mallin*
18	Tadashi Horie* Fric Moss*					
19					(* nuo haa	vice applications fortheaming)
20					(* pro nac	vice applications for theoring)
21					Attorneys KAWASA	for Plaintiff KI JUKOGYO KABUSHIKI
22	KAISHA A/K/A KAWASAKI HEAVY INDUSTRIES, LTD					
23					III DODIN	
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