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4	UNITED STATES DISTRICT COURT	
5	NORTHERN DISTRICT OF CALIFORNIA	
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7	ASETEK DANMARK A/S,	Case No. <u>19-cv-00410-EMC</u>
8	Plaintiff,	
9	v.	ORDER GRANTING IN PART AND DENYING IN PART DEFENDANTS' MOTION FOR SUMMARY JUDGMENT; AND GRANTING IN PART AND DENYING IN PART PLAINTIFF'S MOTION FOR PARTIAL SUMMARY JUDGMENT
10	COOLIT SYSTEMS INC, et al.,	
11	Defendants.	
12		
13		Docket Nos. 387, 394

I. **INTRODUCTION**

17 Plaintiff Asetek Danmark AS ("Asetek") filed suit against CoolIT Systems, Inc. and its 18 subsidiaries, and Corsair Gaming, Inc. and its U.S. subsidiaries (collectively "CoolIT"), asserting 19 that CoolIT infringed and continues to infringe five of its patents — *i.e.*, the '601, '196, '362, '354 20 and '355 patents (collectively "CoolIT Patents"). CoolIT counterclaimed, alleging that Asetek 21 infringed four of CoolIT's patents — *i.e.*, the '330, '284, '266, and '567 patents. All of the 22 allegedly infringed patents relate to liquid cooling systems and methods for cooling heat-23 generating electronic components. Both parties move for summary judgment. For the reasons 24 stated below, the Court GRANTS IN PART Asetek's Motion for summary judgment for validity 25 of the '362 Patent and **DENIES IN PART** the Motion for noninfringement of the CoolIT Patents. 26 The Court **DENIES IN PART** CoolIT's Motion for summary judgment for validity of the CoolIT 27 Patents and **GRANTS IN PART** the Motion for noninfringement of the '362 Patent.

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b. <u>The "Single Receptacle" Requirement</u>

The parties dispute whether (1) the first structure defining the upper (pump) chamber is a second receptacle, and (2) the upper and lower chambers of the Tamriel are "separable." If the first structure (upper chamber) constitutes a receptacle by itself, or the upper and lower chambers are separable as separate receptacles rather than constituting a single unitary unit, the device will not satisfy the stipulated "single receptacle" reservoir construction.

According to Asetek's expert Dr. Tuckerman, the first structure of Tamriel (*i.e.*, the top chamber) is a "subcomponent . . . designed to fit within the reservoir housing via mating and interconnecting features" to form a "single receptacle." 11/3/2021 Tuckerman Expert Infringement Rep. ¶ 147, 149-150. CoolIT, on the other hand, argues that both structures are each a receptacle separable by removing the screws -i.e., "removably coupled" together. Ds' Opp'n at 9-10. Hence, there is not a simple "receptacle." CoolIT finds similarities to the Ryu reference in the CMI case. In CMI, CMI had argued that the heat exchanging interfaces in the accused products were screwed to the device and were not intended to be removed, and to do so would damage the products or otherwise render them nonfunctional; therefore, it did not infringe the '362 Patent requiring the heat exchanging interface to be "removably coupled" to the reservoir. CMI USA Inc., 852 F.3d at 1359-60. However, the jury found that the device was "removably attached" or "removably coupled," and the Federal Circuit affirmed, even though removal would cause coolant to leak. Id. The Federal Circuit reasoned that the patent did not require the functionality of each component upon detachment, and the device would function again if the components were reattached. Id. CoolIT argues that, like the Ryu reference, the two separable receptacles expose fluid to the outside of the closed-loop and require gasket-tubing to seal the connections. Ds' MSJ at 22. Asetek disputes CoolIT's comparison to Ryu.

The parties' arguments about whether there are one or two receptacles focus mainly on mechanical separability -i.e., through screws and a gasket. CoolIT argues the fact that the two chambers are thus attached and separate shows there are two receptacles. However, the Court does not find a mechanical distinction dispositive and instead looks to the function of the

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(12/8/2021 Abraham Non-Infringement Rep.) ¶ 86 ("[A] receptacle . . . is simply 'one that receives and contains something' like a container") (quoting Merriam-Webster's Collegiate Dictionary)).

Here, the two structures are not only spatially separated by the tubing (*i.e.*, gasket)¹⁰, but they are also functionally independent. CooIIT's expert, Dr. Abraham, includes a demonstration in his expert report that Tamriel's two structures can function as two receptacles independently of and away from each other, just like the prior art Ryu. 12/8/2021 Abraham Non-Infringement Rep. ¶ 245 ("I have had a demo made to show that, when the two chambers of CooIIT's new design is separated and connected by a tube, the device functions just the same[.]"). CooIIT also points out that both Ryu and Tamriel have a separation of the pump chamber that leads to a possible leakage, which is prevented through gasket-tubing. 12/8/2021 Abraham Non-Infringement Rep. ¶ 259 ("[The gasket tubing connections] are the connections that Asetek has repeatedly touted that its purported invention with a single-receptacle 'reservoir' would eliminate and would thus increase reliability over prior art."). The Court agrees with CooIIT that the two structures function independently. Asetek's contrary arguments are unconvincing:

First, Asetek points out that Tamriel's top chamber subcomponent is permanently affixed to the reservoir housing and is not separable without significant fluid loss; therefore, it is not a functionally independent device like Ryu's pump driver that is intended to be replaceable by a user. Opp'n at 16. Asetek argues that the device was not intended to be taken apart, and doing so would destroy the product because to take out the screws would require breaking the circuit board. *Id.* However, Asetek's argument fails because the issue here is not whether the device itself would be destroyed if physically taken apart but whether the first and second structures can each function as a receptacle, which Dr. Stein has shown through his simulation.¹¹

¹⁰ CoolIT points out that both Ryu and Tamriel have a separation of the pump chamber that leads to a possible leakage, which is prevented through gasket-tubing. 12/8/2021 Abraham Non-Infringement Rep. ¶ 259 ("[The gasket tubing connections] are the connections that Asetek has repeatedly touted that its purported invention with a single-receptacle 'reservoir' would eliminate and would thus increase reliability over prior art.").

¹¹ CoolIT also points out that this issue was unsuccessfully litigated by Asetek in CMI. Ds' Reply

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Next, Asetek points out that the top chamber subcomponent fulfills the same function as the impeller cover 46A in Asetek's preferred embodiment but is not described as a "receptacle" in the '196 patent. Ds' Opp'n at 17. However, it is the '362 Patent at issue in this case, not the '196 patent. Furthermore, impeller cover 46A is only a preferred embodiment in the '196 patent and therefore not dispositive.

For the foregoing reasons, the Court finds that Tamriel's two structures function as two receptacles.¹²

- Nesting Doll c.

9 Asetek also argues that, even if the top chamber subcomponent of the Tamriel is called a receptacle, it is still only a smaller receptacle contained within the larger receptacle that forms the 10 reservoir housing, like the "nesting doll analogy." Id. at 18. Asetek points out that in CMI, CMI 11 12 argued that the presence of a sub-chamber (which they argued was a receptacle) within the 13 reservoir housing meant that the reservoir was not a single receptacle. Id. at 17-18. Judge Tigar 14 noted:

> it could be that even if the copper sub-chamber is a receptacle, that would not change the fact that the reservoir is a single receptacle divided into an upper chamber and lower chamber – the lower chamber would merely include or consist entirely of a smaller receptacle or sub-chamber. For example, nesting dolls contain many receptacles. But the smaller dolls - or receptacles - do not affect whether the biggest doll is a 'single receptacle'.

- Id. at 18 (quoting the CMI case, Docket No. 426 at 6).
 - The Court finds the nesting doll analogy unconvincing under the facts of this case.
- According to Dr. Abraham, the "encasement" or "outer wall" has no function and is merely 21
- 22 cosmetic without touching liquid; the device will function the same even if it is removed.
- 23 12/8/2021 Abraham Non-Infringement Rep. ¶ 235-39. Asetek argues that the surrounding wall
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constituted a receptacle, but whether the accused product met '362 Patent's requirement that the "heat-exchanging interface" must be "removably attached" or "removably coupled" to the "reservoir." '362 Patent, at 20:3-6; CMI USA Inc., 852 F.3d at 1356. 26

¹² Asetek also argues that CoolIT's own documents and pictures of Tamriel refer to the top 27 chamber subcomponent as "chamber" and not a "receptacle." Ds' Opp'n at 14 (citing Ex. E). However, the relevant document does not specifically label the top chamber subcomponent as a

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