

**REGENERATOR FOR A DEHUMIDIFICATION SYSTEM,
DEHUMIDIFICATION SYSTEM AND METHOD OF REGENERATING
LIQUID DESICCANT**

5 **Abstract**

Various embodiments include a regenerator for a dehumidification system, a dehumidification system, and a method of regenerating liquid desiccant. The regenerator may include an enclosed container having a first reservoir and a second reservoir inside the enclosed container, wherein the first reservoir may be configured
10 to receive liquid desiccant from a dehumidifier of the dehumidification system, a heating element configured to heat the liquid desiccant received in the enclosed container, and a condensing element disposed inside the enclosed container and arranged with respect to the second reservoir for condensate to be collected in the second reservoir.

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FIG. 4