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(71) Applicant (for all designated States except US): **CY-
CLECT SINGAPORE PTE LTD** [SG/SG]; c/o Cyclelect
Electrical Engineering Pte Ltd, 33 Tuas View Crescent,
Singapore 637654 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **YANAGI, Hideharu**
[JP/SG]; 33 Tuas View Crescent, Singapore 637654 (SG).

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON**
(SINGAPORE) PTE LTD; Robinson Road Post Office,
P.O. Box 1531, Singapore 903031 (SG).

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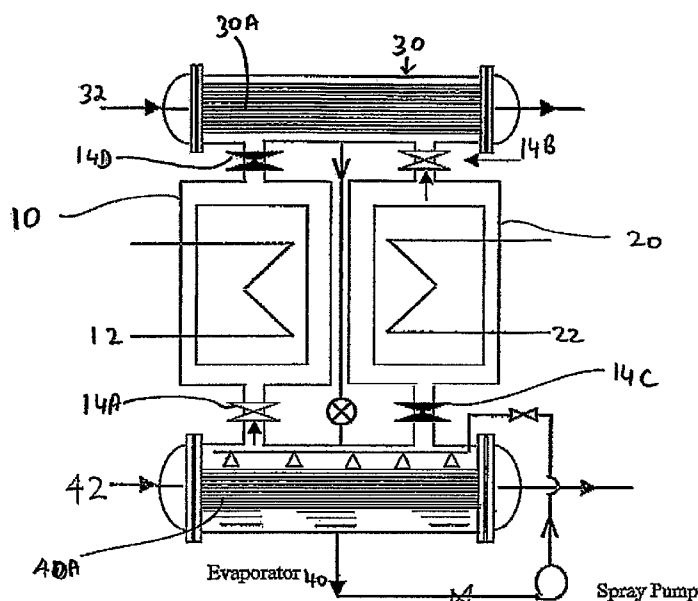
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(54) Title: A REGENERATIVE ADSORPTION SYSTEM



(57) Abstract: The invention discloses a regenerative adsorption system (50). The system includes at least two reactors (60, 70) capable of operating in an adsorption mode and a desorption mode and two liquid atomisation units (62, 72) respectively in fluid communication with the reactors (60, 70). The liquid atomisation units (62, 72) being capable of atomising liquid to form adsorbate vapor or to condense desorbed vapor. In operation, the reactor in the adsorption mode adsorbs the adsorbate vapor and the reactor in the desorption mode produces desorbed vapor that is condensed by the atomised liquid.

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