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(71) Applicant: SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN [SG/SG]; 8 Somapah Road, Singapore 487372 (SG).

(72) Inventors: TAN, Mei Chee; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore

487372 (SG). **LOW, Hong Yee**; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG). **WIRAWAN, Daniel**; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG). **PEK, Anaqi**; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG). **LAI, Jian Ting**; c/o Singapore University of Technology and Design, 8 Somapah Road, Singapore 487372 (SG).

(74) Agent: OWEN, Samuel Man Hon; Marks & Clerk Singapore LLP, Tanjong Pagar Post Office, P O Box 636, Singapore 910816 (SG).

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(54) Title: CARBON CAPTURE DEVICE AND A METHOD OF USING THE CARBON CAPTURE DEVICE FOR CARBON CAPTURE

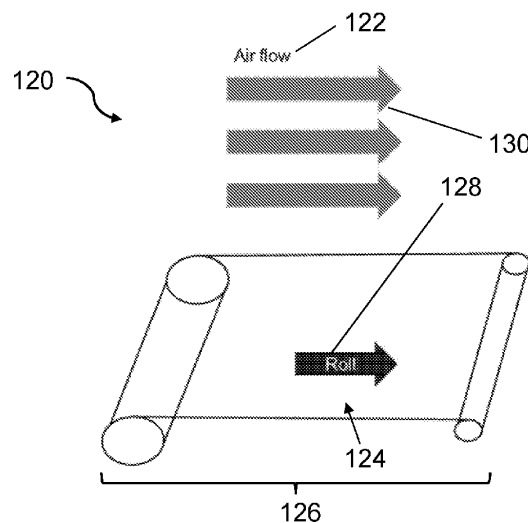


Figure 1B

(57) Abstract: A carbon capture device is described. The carbon capture device comprises a carbon capture film for capturing carbon dioxide; and an exposure mechanism for exposing a portion of the carbon capture film to a surrounding environment for capturing carbon dioxide. The exposure mechanism comprises a receiver for receiving an exposed portion of the carbon capture film and a storage for holding an unexposed portion of the carbon capture film, wherein the receiver is adapted to be connected to a portion of a leading end of the carbon capture film and to convey the unexposed portion of the carbon capture film from the storage to the receiver for exposing the portion of the carbon capture film to the surrounding environment. A method of using the carbon capture device for carbon capture is also described.

[Continued on next page]

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