



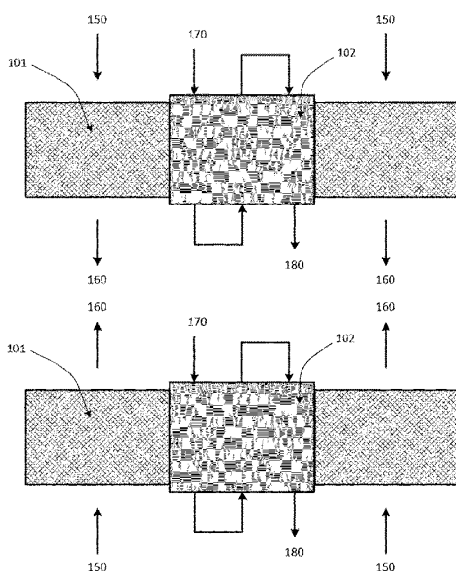
- (51) **International Patent Classification:**
B01D 53/96 (2006.01) *B01D 53/04* (2006.01)
- (21) **International Application Number:**
PCT/EP2022/081442
- (22) **International Filing Date:**
10 November 2022 (10.11.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
21207908.1 12 November 2021 (12.11.2021) EP
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(81) **Designated States** (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
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KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
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RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) **Title:** PROCESSES AND SYSTEMS FOR REGENERATION OF SORBENT FOR USE IN CAPTURE OF CARBON DIOXIDE

Figure 3



(57) **Abstract:** This invention provides processes and systems for the regeneration of a supported sorbent material for use indirect air capture of carbon dioxide from air. The process comprises the steps of introducing a stream of regenerating gas or vapour to the supported sorbent in a first direction thereby defining an axis of flow; and collecting the stream of regenerating gas or vapour and recycling it through the supported sorbent at least one or even multiple further times, wherein the supported sorbent comprises an amount of adsorbed carbon dioxide that is released upon exposure to the stream.

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*