

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
31 March 2022 (31.03.2022)



(10) International Publication Number
WO 2022/064361 A1

(51) International Patent Classification:
B01D 46/00 (2006.01)

(21) International Application Number:
PCT/IB2021/058595

(22) International Filing Date:
21 September 2021 (21.09.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2020-0123451 24 September 2020 (24.09.2020) KR

(71) Applicant: **CSK INC.** [KR/KR]; 268 Geumo-ro, Pogok-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17030 (KR).

(72) Inventors: **KIM, JinHong**; CSK Inc., 268, Geumeo-ro, Pogok-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17030 (KR). **KANG, MyeongHoon**; CSK Inc., 268, Geumeo-ro, Pogok-eup, Cheoin-gu, Yongin-si Gyeonggi-do 17030 (KR).

(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, 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, 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, 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).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: APPARATUS FOR COLLECTING POWDER IN EXHAUST GAS HAVING A FILTER DEDUSTING FUNCTION AND EXHAUST GAS TREATMENT EQUIPMENT PROVIDED WITH SAME

(57) Abstract: Provided in the present invention is an apparatus for collecting powder in exhaust gas comprising: a device for collecting powder contained in exhaust gas before the exhaust gas is introduced into a cylindrical adsorption reaction device that treats the exhaust gas using an adsorption reaction, wherein a cylindrical filter body includes a filter member that filters the exhaust gas and is disposed underneath the adsorption reaction device so as to be connected to the adsorption reaction device; a housing that provides an internal space to house the filter body, and a filter striking module that applies a physical impact to the filter body to dislodge powder adhering to the filter member.

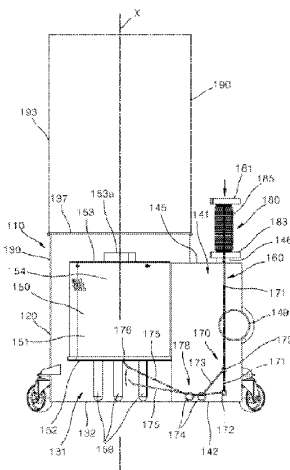


FIG. 6

WO 2022/064361 A1