



(51) International Patent Classification:
F42D 5/045 (2006.01)

(21) International Application Number:
PCT/US2024/044399

(22) International Filing Date:
29 August 2024 (29.08.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/579,418 29 August 2023 (29.08.2023) US
18/818,769 29 August 2024 (29.08.2024) US

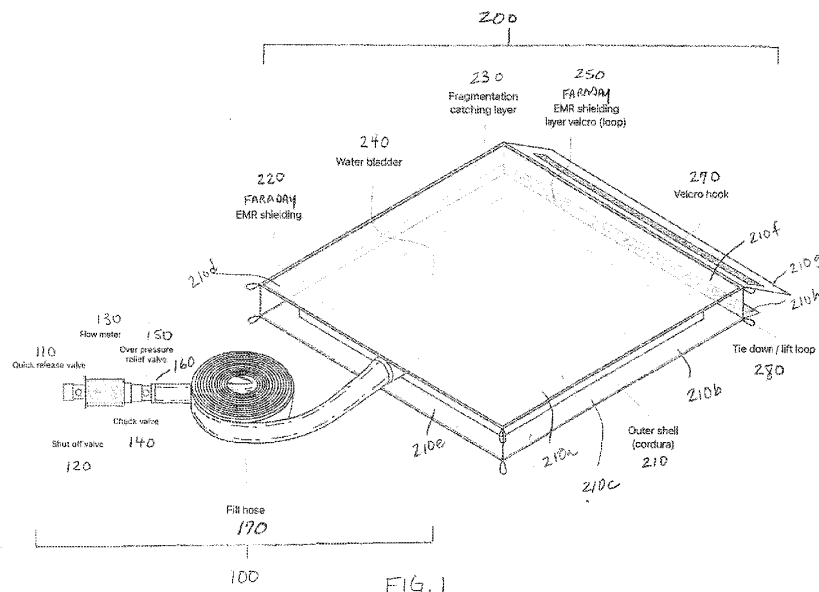
(71) Applicant: **SOLUTIONS ASIA CONSULTANTS INC.**
[US/US]; 923 Imperial Drive, Denton, TX 76209-8609
(US).

(72) Inventors: **COWLIN, Christopher, J.**; c/o Turnbull & Cowlin International Company, Limited, 298/16 Silom Soi 28, Suriyawong, Bangkok, 10500 (TH). **GRAUKE, Gabriel, R.**; c/o Turnbull & Cowlin International Company, Limited, 298/16 Silom Soi 28, Suriyawong, Bangkok, 10500 (TH). **COWLIN, Mariz, S.**; c/o Turnbull & Cowlin International Company, Limited, 298/16 Silom Soi 28, Suriyawong, Bangkok, 10500 (TH).

(74) Agent: **CHIN, Brad, Y.** et al.; BRACEWELL LLP, P.O. Box 61389, Houston, TX 77208-1389 (US).

(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, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,

(54) Title: SIGNAL DAMPENING AND BLAST MITIGATION DEVICE



(57) Abstract: According to an embodiment, there is provided a signal dampening and blast mitigation device for mitigating a downed, weaponized drone or an IED, the device including: a hose assembly and a neutralizing body. According to an embodiment, the hose assembly is configured to connect to a water source and a first distal end of the neutralizing body, the neutralizing body includes a water bladder, and the hose assembly is configured to fill the water bladder in the neutralizing body. According to an embodiment, upon deployment, the signal dampening and blast mitigation device is configured to be placed over the downed weaponized drone or the TED, such that the filled water bladder and the neutralizing body are further configured to mitigate explosive blast and fragmentation and to block signal transmission from or received by the downed weaponized drone or the IED.

[Continued on next page]

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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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).

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*