

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 April 2021 (29.04.2021)



(10) International Publication Number
WO 2021/077167 A1

(51) International Patent Classification:

F15D 1/00 (2006.01) *G01N 1/10* (2006.01)
F16L 55/00 (2006.01) *G01D 11/24* (2006.01)

(21) International Application Number:

PCT/AU2020/051139

(22) International Filing Date:

22 October 2020 (22.10.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2019903991 23 October 2019 (23.10.2019) AU
2020903556 01 October 2020 (01.10.2020) AU

(71) Applicant: **HALDATEC PTY LTD** [AU/AU]; Unit 11,
27-33 Thornton Crescent, Mitcham, Victoria 3132 (AU).

(72) Inventors: **SEYMOUR, Cameron**; c/- Haldatec Pty Ltd,
Unit 11, 27-33 Thornton Crescent, Mitcham, Victoria 3132
(AU). **MATARA, Nishal**; c/- Haldatec Pty Ltd, Unit 11,
27-33 Thornton Crescent, Mitcham, Victoria 3132 (AU).
DOBBS, Adam; c/- Haldatec Pty Ltd, Unit 11, 27-33
Thornton Crescent, Mitcham, Victoria 3132 (AU).

(74) Agent: **GRIFFITH HACK**; GPO Box 1285, Melbourne,
Victoria 3001 (AU).

(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, KR, 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))

(54) Title: A VORTEX SUPPRESSION DEVICE

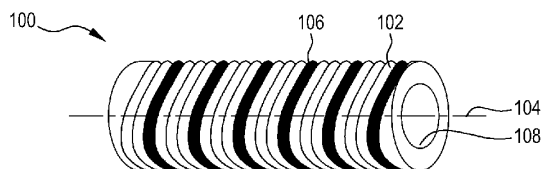


Figure 8

(57) Abstract: A vortex suppression device (10) for a fluid flowing along a pathway (A-E), including: an elongate body with an outer surface having an elongate leading section and an elongate trailing section along the length of the elongate body, in relation to a direction of fluid flow (A-E) when the device is located in the pathway, the elongate body having at least one channel (24a-24d, 26a, 26b) which extends from the elongate leading section to the elongate trailing section of the elongate body, the channel (24a-24d, 26a, 26b) being configured so that in use, when the device is in the pathway, the channel (24a-24d, 26a, 26b) allows fluid flow (J) towards the trailing section that disrupts the formation of vortices (D).

WO 2021/077167 A1