

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 October 2024 (10.10.2024)



(10) International Publication Number
WO 2024/211792 A2

(51) International Patent Classification:
A61M 25/00 (2006.01)

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:
PCT/US2024/023382

Published:

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

(22) International Filing Date:
05 April 2024 (05.04.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/457,730 06 April 2023 (06.04.2023) US

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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,
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,
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,

(54) Title: SYSTEM AND DEVICE FOR PROVIDING LOCALIZED TURBULENCE FOR DELIVERING A MEDICAL EM-
BOLIZING AGENT

(57) Abstract: A system or device for infusing a therapeutic agent to a blood vessel of a patient, comprising a catheter arrangement and a turbulence inducing structure. The catheter arrangement extends from a distal end to a proximal end having an outer surface and an interior surface. The catheter arrangement comprising an opening at a distal tip of the catheter arrangement in a continuous fluid pathway with a lumen extending through the catheter arrangement defined by the interior surface. The turbulence inducing structure is formed from or attached to the outer surface or the distal tip of the catheter arrangement. The turbulence inducing structure is configured to induce turbulence to blood flowing through a localized region of the blood vessel. The turbulence inducing structure is suitably sized and shaped to not fully occlude the blood vessel such that the blood can flow past the turbulence inducing structure.



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