

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 September 2023 (21.09.2023)

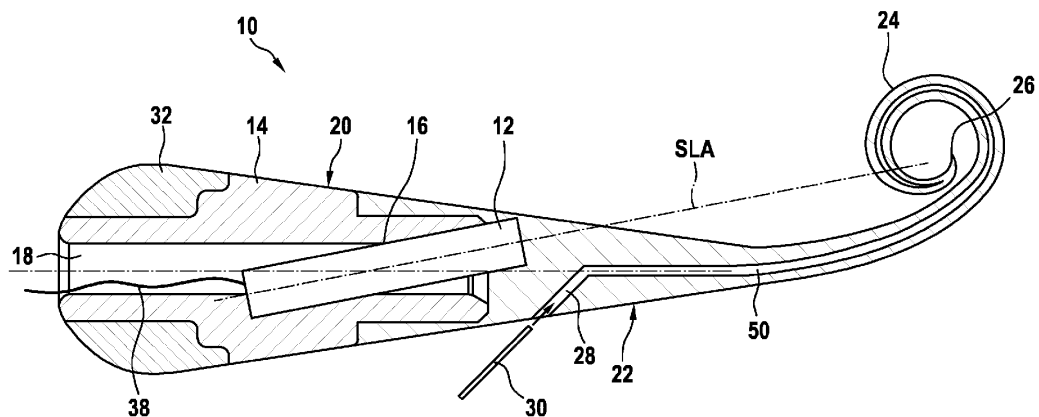


(10) International Publication Number
WO 2023/174972 A1

- (51) International Patent Classification:
A61M 60/816 (2021.01) *A61M 60/174* (2021.01)
- (21) International Application Number:
PCT/EP2023/056546
- (22) International Filing Date:
15 March 2023 (15.03.2023)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
22162196.4 15 March 2022 (15.03.2022) EP
- (71) Applicant: **ABIOMED EUROPE GMBH** [DE/DE];
Neuenhofer Weg 3, 52074 Aachen (DE).
- (72) Inventors: **LUNZE, Katrin**; c/o ABIOMED Europe GmbH, Neuenhofer Weg 3, 52074 Aachen (DE). **SIESS, Thorsten**; c/o ABIOMED Europe GmbH, Neuenhofer Weg 3, 52074 Aachen (DE). **NIX, Christoph**; c/o ABIOMED Europe GmbH, Neuenhofer Weg 3, 52074 Aachen (DE).
- (74) Agent: **GROSSE SCHUMACHER KNAUER VON HIRSCHHAUSEN**; Nymphenburger Str. 14, 80335 München (DE).
- (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,

(54) Title: SENSOR CARRIER, BLOOD PUMP COMPRISING A SENSOR CARRIER AND GUIDEWIRE COMPRISING A SENSOR CARRIER

Fig. 3



(57) Abstract: The present invention relates to a sensor carrier (10) configured to be attached to an elongated medical device. The sensor carrier comprises a sensor (12) having a sensor longitudinal axis (SLA), a base member (14, 314) having a central longitudinal axis (CLA) and an attachment portion (16) for receiving the sensor (12), the sensor (12) being configured to be disposed in the attachment portion (16), wherein the sensor longitudinal axis (SLA) is non-parallel with respect to the central longitudinal axis (CLA) of the base member (14). The present invention further relates to a blood pump or a guidewire comprising a sensor carrier.

[Continued on next page]

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:

— with international search report (Art. 21(3))