



(51) International Patent Classification:

A61L 27/34 (2006.01) A61F 2/00 (2006.01)
A61L 27/50 (2006.01) A61F 2/12 (2006.01)

(21) International Application Number:

PCT/IB2009/053897

(22) International Filing Date:

7 September 2009 (07.09.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

08163816.5 5 September 2008 (05.09.2008) EP

(71) Applicant (for all designated States except US): **ECOLE
POLYTECHNIQUE FEDERALE DE LAUSANNE
(EPFL)** [CH/CH]; CM-Ecublens, CH-1015 Lausanne
(CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MAJD, Hicham**
[MA/CH]; Chemin du Silo 12, CH-1020 Renens (CH).
PIETRAMAGGIORI, Giorgio [CH/CH]; Rue des
Savoises 8, CH-1205 Genève (CH). **HINZ, Boris**
[CH/CH]; Chemin des Oches 22, CH-1053 Bretigny-sur-
Morrens (CH).

(74) Agent: **ROLAND, André**; c/o ANDRE ROLAND S.A.,
P.O. Box 1255, CH-1001 Lausanne (CH).

(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, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (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, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

19 August 2010

(54) Title: COATED MEDICAL DEVICE AND METHOD OF COATING A MEDICAL DEVICE TO REDUCE, FIBROSIS
AND CAPSULE FORMATION

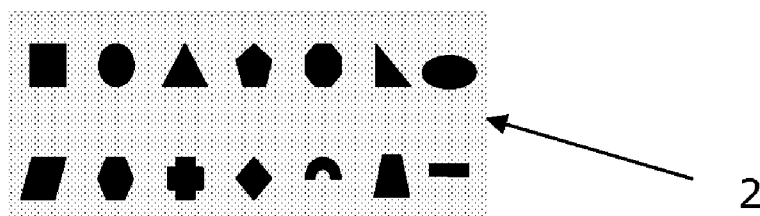


Figure 2

(57) Abstract: Coating for a medical device comprising cell-adhesive proteins having the ability to reduce fibrous reaction, said coating being in the form of separate islets having an individual area which is less than 12 μm^2 and wherein the distance between the islets is less than 50 μm .

