



(51) International Patent Classification:

B06B 1/06 (2006.01) **A61M 11/00** (2006.01)
B05B 17/00 (2006.01) **A61M 15/00** (2006.01)
B05B 17/06 (2006.01)

(21) International Application Number:

PCT/EP2021/078198

(22) International Filing Date:

12 October 2021 (12.10.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20201389.2 12 October 2020 (12.10.2020) EP

(71) Applicant: **VECTURA DELIVERY DEVICES LIMITED** [GB/GB]; One Prospect West, Chippenham Wiltshire SN14 6FH (GB).

(72) Inventors: **HUBER, Martin**; c/o Vectura Delivery Devices Ltd, 205 Cambridge Science Park, Milton Road, Cambridge Cambridgeshire CB4 0GZ (GB). **SCHWENDNER, Sebastian**; c/o Vectura Delivery Devices Ltd, 205 Cambridge Science Park, Milton Road, Cambridge Cambridgeshire CB4 0GZ (GB). **CEREDA, Lelio**; c/o Vectura Delivery Devices Ltd, 205 Cambridge Science Park, Milton

Road, Cambridge Cambridgeshire CB4 0GZ (GB). **NOTT, Werner**; Flextronics International GmbH, Friesacherstrasse 3, 9330 Althofen (AT).

(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).

(54) Title: AEROSOL GENERATOR FOR AN INHALATION DEVICE

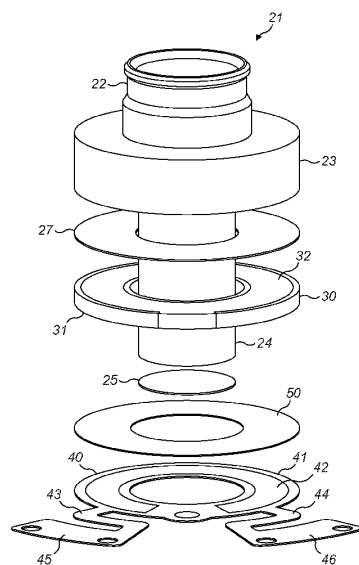


FIG. 3

(57) Abstract: The invention provides an aerosol generator (21) for an inhalation device, comprising a vibratable membrane (25), a support member (22), a flexible connector (40) and an annular piezoelectric element (30) having first (33) and second (34) conductive regions on its first (31) and second (32) surfaces. The second conductive region (34) extends onto the first surface of the piezoelectric element to form a contact region (38) so that there are two electrical contacts on the first surface (31). The flexible connector (40) has a surface (42) which is an electrical insulator with first (47) and second (48) conductive regions that correspond to the first conductive region (34) and to the contact region (38) on the piezoelectric element respectively. It has two 'S' shaped legs (43, 44) for making electrical connection to a controller that provides a driving current to the piezoelectric element.

Published:

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