

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 December 2024 (26.12.2024)



(10) International Publication Number
WO 2024/259640 A1

- (51) **International Patent Classification:**
B29C 64/118 (2017.01) *B29C 64/393* (2017.01)
- (21) **International Application Number:**
PCT/CN2023/101745
- (22) **International Filing Date:**
21 June 2023 (21.06.2023)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (71) **Applicant:** TRIASTEK, INC. [CN/CN]; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN).
- (72) **Inventors:** **LI, Renjie**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **XU, Yuemin**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **LIU, Fuqiang**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **ZHAO, Liang**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **DENG, Feihuang**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **YANG, Peizhan**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **WANG, Peng**; No. 24 Building, Max

Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **XUE, Zhengdong**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **WU, Yu**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **SONG, Haifeng**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **Ji, Guodong**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **JIANG, Zhengping**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **CHENG, Senping**; No. 24 Building, Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **LI, Xiaoling**; 2511 Valentino Dr., Dublin, California 94568 (US).

(74) **Agent:** JUN HE LAW OFFICES; 20/F, China Resources Building, 8 Jianguomenbei Avenue, Dongcheng District, Beijing 100005 (CN).

(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,

(54) **Title:** FLEXIBLE, EXTENDABLE, AND MODULARIZED PHARMACEUTICAL ADDITIVE MANUFACTURING SYSTEM

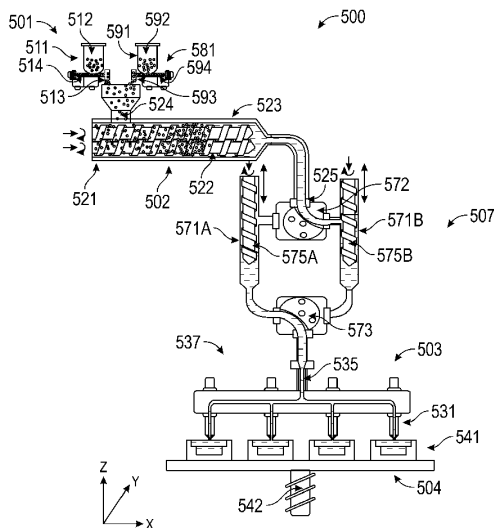


FIG. 5A

(57) **Abstract:** Additive manufacturing systems for creating pharmaceutical products and methods for operating these systems are disclosed. In some embodiments, the system allows additive pharmaceutical dosage units to be manufactured in a flexible, extendable, modularized, and reconfigurable manner, while maintaining high throughput over time.

WO 2024/259640 A1

[Continued on next page]

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, 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))