

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/034656 A2

(51) International Patent Classification:
A61M 5/28 (2006.01) *A61M 5/32* (2006.01)

(21) International Application Number:
PCT/US2024/040953

(22) International Filing Date:
05 August 2024 (05.08.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/518,266 08 August 2023 (08.08.2023) US

(71) Applicant: **AMGEN INC.** [US/US]; c/o Amgen Inc.,
One Amgen Center Drive, Thousand Oaks, California
91320-1799 (US).

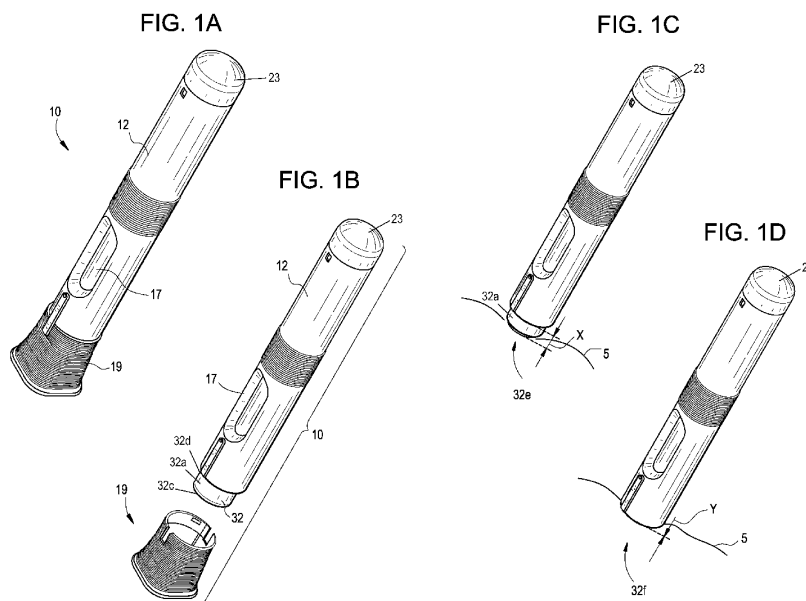
(72) Inventors: **PEDERSEN, Jakob Halkjaer**; c/o Amgen
Inc., One Amgen Center Drive, Thousand Oaks, Califor-

nia 91320-1799 (US). **DUDMAN, Joshua Jay**; c/o Amgen
Inc., One Amgen Center Drive, Thousand Oaks, California
91320-1799 (US).

(74) Agent: **LEE, Eunice**; c/o One Amgen Center Drive, Thou-
sand Oaks, California 11020 (US).

(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.

(54) Title: DRUG DELIVERY DEVICE HAVING A NEEDLE SHIELD WITH VISUAL FEEDBACK



(57) Abstract: A drug delivery device includes a housing, a drug storage container, a plunger, and a guard. The housing has an opening, and the guard is disposed adjacent the opening and moveable relative to the housing between an extended position and a retracted position. The guard includes a first annular portion and a second annular portion disposed at a distal end of the first annular portion, and the second annular portion has an outer diameter greater than an outer diameter of the first annular portion. The second annular portion is positioned a first distance from a distal end of the housing when the guard is in the extended position and the second annular portion is positioned a second distance from the distal end of the housing when the guard is in the retracted position. The second distance is smaller than the first distance.

[Continued on next page]

(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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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