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(81) Designated States (unless otherwise indicated, for every
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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, JM, 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,
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ZW.

(54) Title: NON-VIRAL HOMOLOGY MEDIATED END JOINING

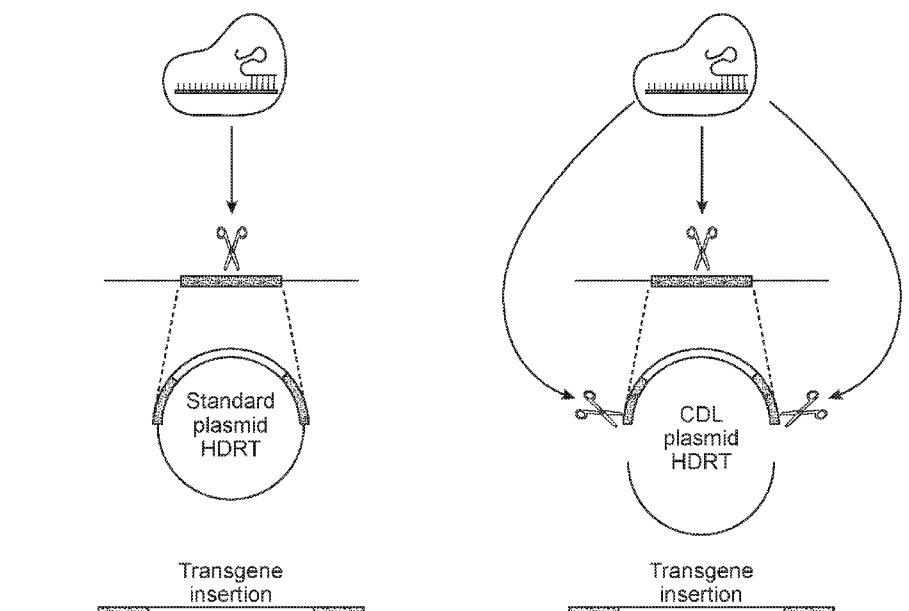


FIG. 1

(57) Abstract: Provided herein are compositions and methods for producing genetically engineered cells, such as T cells, with an insertion of a cassette at a designated genomic locus using non-viral gene editing techniques. Methods of using the genetically engineered cells for treating or preventing a disease in a subject are also provided.



(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).

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- *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:

- *with international search report (Art. 21(3))*
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From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
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To:

RODRIGUEZ, Elena M.
Goodwin Procter LLP
IP Docketing Dept./7TH FL
100 Northern Avenue
Boston, Massachusetts 02210
ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 17 July 2023 (17.07.2023)		IMPORTANT NOTIFICATION	
Applicant's or agent's file reference ANB-206WO			
International application No. PCT/US2022/024703			
International filing date (day/month/year) 13 April 2022 (13.04.2022)			
1. The following indications appeared on record concerning: ☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative			
Name and Address ARSENAL BIOSCIENCES, INC. 2 Tower Place, Suite 700 South San Francisco, California 94080 UNITED STATES OF AMERICA		State of Nationality US	State of Residence US
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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Ulhaq Faizan e-mail pct.team2@wipo.int Telephone No. +41 22 338 74 02	

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