

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 December 2021 (02.12.2021)



(10) International Publication Number
WO 2021/241884 A1

(51) International Patent Classification:
G16H 20/30 (2018.01) *A61B 3/113* (2006.01)
G06F 3/01 (2006.01)

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).

(21) International Application Number:
PCT/KR2021/004800

Published:

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

(22) International Filing Date:
16 April 2021 (16.04.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
16/883,369 26 May 2020 (26.05.2020) US

(71) Applicant: **S-ALPHA THERAPEUTICS, INC.**
[KR/KR]; 1915, 309, Gangnam-daero, Seocho-gu, Seoul
06628 (KR).

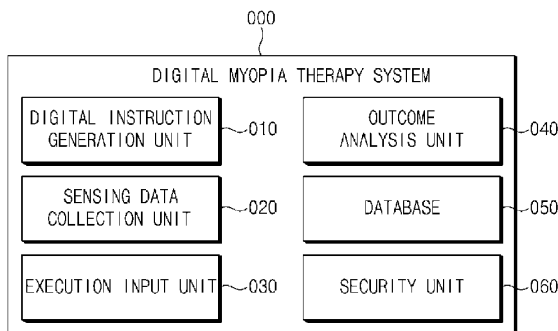
(72) Inventor: **CHOI, Seung Eun**; 1915, 309, Gangnam-daero,
Seocho-gu, Seoul 06628 (KR).

(74) Agent: **BAE, KIM & LEE IP**; 5th Floor, 30 Cheong-
gyecheon-ro, Jung-gu, Seoul 04521 (KR).

(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,

(54) Title: DIGITAL APPARATUS AND APPLICATION FOR TREATING MYOPIA



(57) Abstract: Systems and methods for treating myopia are provided. A system may include a digital apparatus, which may include a digital instruction generation unit configured to generate digital therapeutic modules for treating myopia based on a mechanism of action (MOA) in and a therapeutic hypothesis for the myopia, generate specified digital instructions based on the digital therapeutic modules and provide the digital instructions to a first user, and an outcome collection unit configured to collect the first user's execution outcomes of the digital instructions. The system may also include a healthcare provider portal for a healthcare provider to manage their patients and/or an administrative portal.

WO 2021/241884 A1