

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 August 2024 (15.08.2024)



(10) International Publication Number
WO 2024/167459 A1

(51) International Patent Classification:

H01R 13/62 (2006.01) H01R 13/642 (2006.01)
H01R 13/627 (2006.01)

(21) International Application Number:

PCT/SG2023/050072

(22) International Filing Date:

10 February 2023 (10.02.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant: RAZER (ASIA-PACIFIC) PTE. LTD.

[SG/SG]; Razer SEA HQ, 1 one-north Crescent, #02-01,
Singapore 138538 (SG).

(72) Inventors: WU, Chris; c/o Razer (asia-pacific) Pte. Ltd.,

Razer SEA HQ, 1 one-north Crescent, #02-01, Singapore

138538 (SG). YANG, Jake; c/o Razer (asia-pacific) Pte.
Ltd., Razer SEA HQ, 1 one-north Crescent, #02-01, Singa-
pore 138538 (SG). KU, Kate; c/o Razer (asia-pacific) Pte.
Ltd., Razer SEA HQ, 1 one-north Crescent, #02-01, Singa-
pore 138538 (SG).

(74) Agent: VIERING, JENTSCHURA & PARTNER LLP;
P.O. Box 1088, Rochor Post Office, Rochor Road, Singa-
pore 911833 (SG).

(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, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,

(54) Title: MAGNETIC CONNECTION SYSTEM, MAGNETIC CONNECTOR AND ELECTRONIC DEVICE HAVING A MAGNETIC CONNECTOR

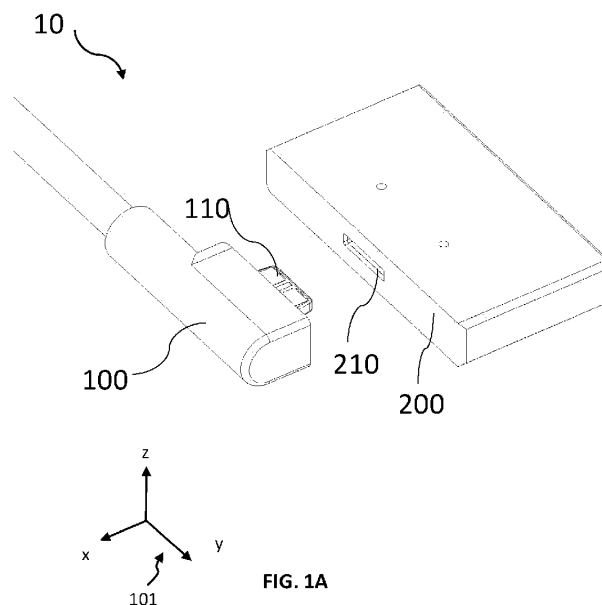


FIG. 1A

(57) Abstract: A magnetic connection system includes a first connector and a second connector. The first connector includes a first magnetic element having a magnetic plane and a terminal assembly protruding from the magnetic plane of the first magnetic element. The terminal assembly includes a first guiding component. The second connector is configured to receive the first connector so as to establish an electrical connection. The second connector includes a receptacle configured to receive the first connector and a second magnetic element disposed adjacent to the receptacle of the second connector. The second connector includes a second guiding component configured to couple with the first guiding component in a manner that the first connector is received by the second connector in a solitary predetermined direction non-parallel to the magnetic plane of the first magnetic element of the first connector.

[Continued on next page]

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))