

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 June 2023 (08.06.2023)



(10) International Publication Number
WO 2023/099871 A1

(51) International Patent Classification:

G09G 5/12 (2006.01) G06F 3/14 (2006.01)
G09G 3/00 (2006.01)

(21) International Application Number:

PCT/GB2022/052981

(22) International Filing Date:

24 November 2022 (24.11.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2117348.9 01 December 2021 (01.12.2021) GB

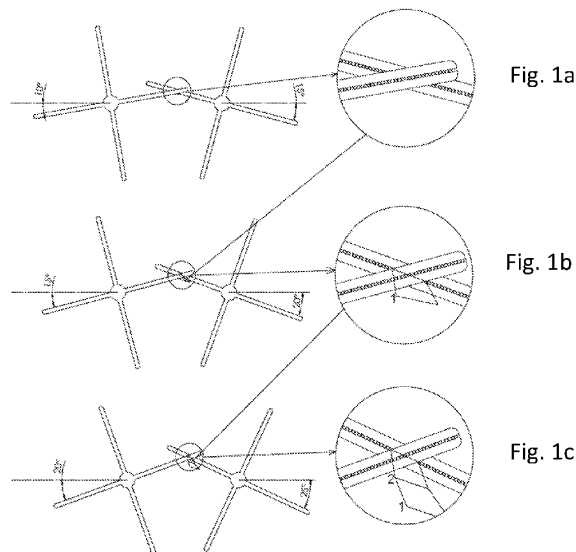
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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

(54) Title: Display System and Method Of Operation



(57) Abstract: 8507054 v1 32 Abstract Display Module and System and Method Of Operation A display system comprises a plurality of display modules, each display module comprising: at least one light source movable along a predetermined closed path; an image controller adapted to modulate the intensity of light emitted by the at least one light source as it 5 moves along the predetermined closed path so as to cause a desired image to be visible by virtue of persistence of vision; a drive mechanically coupled to the at least one light source for moving the at least one light source along the predetermined closed path; a sensor which generates a synchronisation signal including a synchronisation feature indicating the passage of the at least one light source past a datum point on the predetermined closed 10 path; and a drive controller for controlling the speed of the drive, the drive controller being adapted to receive the synchronisation signal from the sensor and a reference signal including a periodic timing feature having a period based on a desired speed of revolution

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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, 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, 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))

of the at least one light source along the predetermined closed path, wherein the drive controller is further adapted to produce a drive signal to control the speed of the drive such 15 that a phase shift between the synchronisation feature or a phase-shifted version of it and the timing feature or a phase-shifted version of it is maintained at a predetermined value. The plurality of display modules are arranged into at least two groups, each of the at least two groups comprising one or more of the plurality of display modules, and the predetermined closed path of the or each display module in each group lying in a plane 20 associated with the group, the plane associated with each group being unique to that group. The display modules are disposed such that each lies within a region around the intersection of a row and a column in a grid, each module being adjacent, in its row and column, only to modules in a different one of the at least two groups, the light sources of each adjacent pair of display modules moving along their predetermined closed paths in opposing senses and 25 the predetermined closed paths of each adjacent pair overlapping. The predetermined value of the phase shift between the synchronisation feature or phase-shifted version of it and the timing feature or phase-shifted version of it for each of the plurality of display modules is selected such that the at least one light source or a member on which it is mounted does not occupy a position in which the at least one light source or the member on which it is 30 8507054 v1 33 mounted obscures the at least one light source of another of the plurality of display modules.