

# (12) International Application Status Report

**Received at International Bureau:** 19 October 2017 (19.10.2017)

**Information valid as of:** 19 March 2018 (19.03.2018)

**Report generated on:** 17 September 2019 (17.09.2019)

**(10) Publication number:**

WO2018/067934

**(43) Publication date:**

12 April 2018 (12.04.2018)

**(26) Publication language:**

English (EN)

**(21) Application Number:**

PCT/US2017/055540

**(22) Filing Date:**

06 October 2017 (06.10.2017)

**(25) Filing language:**

English (EN)

**(31) Priority number(s):**

62/405,875 (US)

**(31) Priority date(s):**

08 October 2016 (08.10.2016)

**(31) Priority status:**

Priority document received (in compliance with PCT Rule 17.1)

**(51) International Patent Classification:**

G09G 3/20 (2006.01)

**(71) Applicant(s):**

E INK CORPORATION [US/US]; Attn: IP Department 1000 Technology Park Drive Billerica, Massachusetts 01821-4165 (US)  
(for all designated states)

**(72) Inventor(s):**

LU, Yi; c/o E Ink Corporation 1000 Technology Park Drive Billerica, Massachusetts 01821-4165 (US)

SJODIN, Theodore A.; c/o E Ink Corporation 1000 Technology Park Drive Billerica, Massachusetts 01821-4165 (US)

HO, Chih-Hsiang; c/o E Ink Corporation 1000 Technology Park Drive Billerica, Massachusetts 01821-4165 (US)

AMUNDSON, Karl Raymond; c/o E Ink Corporation 1000 Technology Park Drive Billerica, Massachusetts 01821-4165 (US)

**(54) Title (EN):** DRIVING METHODS FOR ELECTRO-OPTIC DISPLAYS

**(54) Title (FR):** PROCÉDÉS DE COMMANDE POUR DISPOSITIFS D'AFFICHAGE ÉLECTRO-OPTIQUES

**(57) Abstract:**

**(EN):** A driving method an electro-optic display having a plurality of display pixels, the method include applying a first set of waveform to a first display pixel, the first set of waveform having at least one active portion configured to affect the optical state of the first display pixel and at least one non-active portion configured not to substantially affect the optical state of the first display pixel. The method also include applying a second set of waveform to a second display pixel, the second set of waveform having at least one active portion configured to affect the optical state of the second display pixel and at least one non-active portion configured not to substantially affect the optical state of the second display pixel, where the at least one active portions of the first and second set of waveforms do not overlap in time.

**(FR):** L'invention concerne un procédé de commande d'un affichage électro-optique ayant une pluralité de pixels d'affichage, le procédé comprenant l'application d'un premier ensemble de formes d'onde à un premier pixel d'affichage, le premier ensemble de formes d'onde ayant au moins une partie active configurée pour affecter l'état optique du premier pixel d'affichage et au moins une partie non active configurée pour ne pas affecter sensiblement l'état optique du premier pixel d'affichage. Le procédé comprend également l'application d'un second ensemble de formes d'onde à un second pixel d'affichage, le second ensemble de formes d'onde ayant au moins une partie active configurée pour affecter l'état optique du second pixel d'affichage et au moins une partie non active configurée pour ne pas affecter sensiblement l'état optique du second pixel d'affichage, la ou les parties actives des premier et second ensembles de formes d'onde ne se chevauchant pas dans le temps.

**International search report:**

Received at International Bureau: 22 June 2018 (22.06.2018) [KR]

**International Report on Patentability (IPRP) Chapter II of the PCT:**

Not available

**(81) Designated States:**

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, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

**Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate