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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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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.
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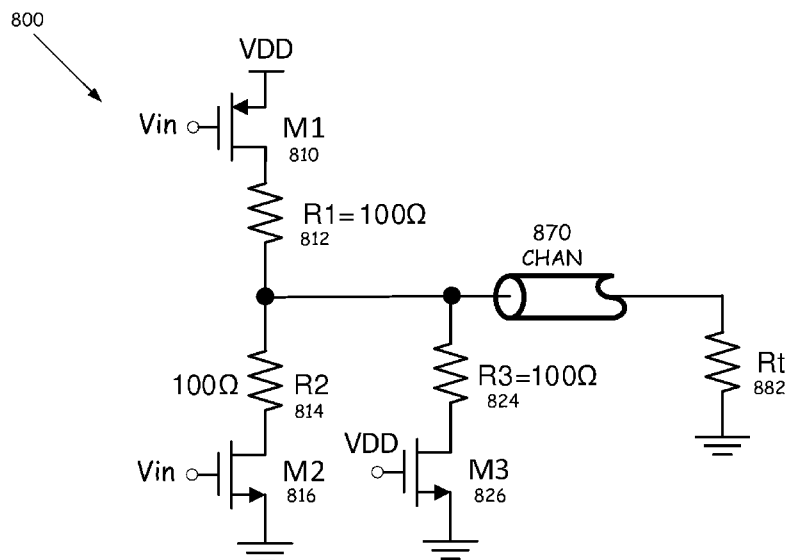
(54) **Title:** SINGLE-ENDED CONFIGURABLE MULTI-MODE DRIVER

Fig. 8A

(57) **Abstract:** Embodiments of the invention are generally directed to a single-ended configurable multi-mode driver. An embodiment of an apparatus includes an input to receive an input signal, an output to transmit a driven signal generated from the input signal on a communication channel, a mechanism for independently configuring a termination resistance of the driver apparatus, and a mechanism for independently configuring a voltage swing of the driven signal without modifying a supply voltage for the apparatus.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 1/00; G06F 13/40; H04L 27/00; H04L 27/01; H03K 17/16; H04Q 9/00; G08C 19/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: "DRIVER", "VOLTAGE SWING", "TERMINATION RESISTOR"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0834814 A2 (FUJITSU LIMITED) 08 April 1998 See abstract, column 4 line 20 - column 8 line 34 and figures 1-2.	1-51
A	US 2010-0164539 A1 (BALAMURUGAN GANESH et al.) 01 July 2010 See abstract, paragraphs [0016] - [0055] and figure 2.	1-51
A	US 2005-0030200 A1 (HOLT MICHAEL D.) 10 February 2005 See abstract, paragraph [0026] - [0087] and figure 1A.	1-51
A	US 2008-0310491 A1 (ABBASFAR ALIAZAM et al.) 18 December 2008 See abstract, paragraphs [0016]- [0033] and figure 3.	1-51



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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