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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 7/00 | A1

(11) International Publication Number: WO 00/08549

(43) International Publication Date: 17 February 2000 (17.02.00)

(21) International Application Number: PCT/US99/17041

(22) International Filing Date: 27 July 1999 (27.07.99)

(30) Priority Data:
09/130,379 6 August 1998 (06.08.98) US

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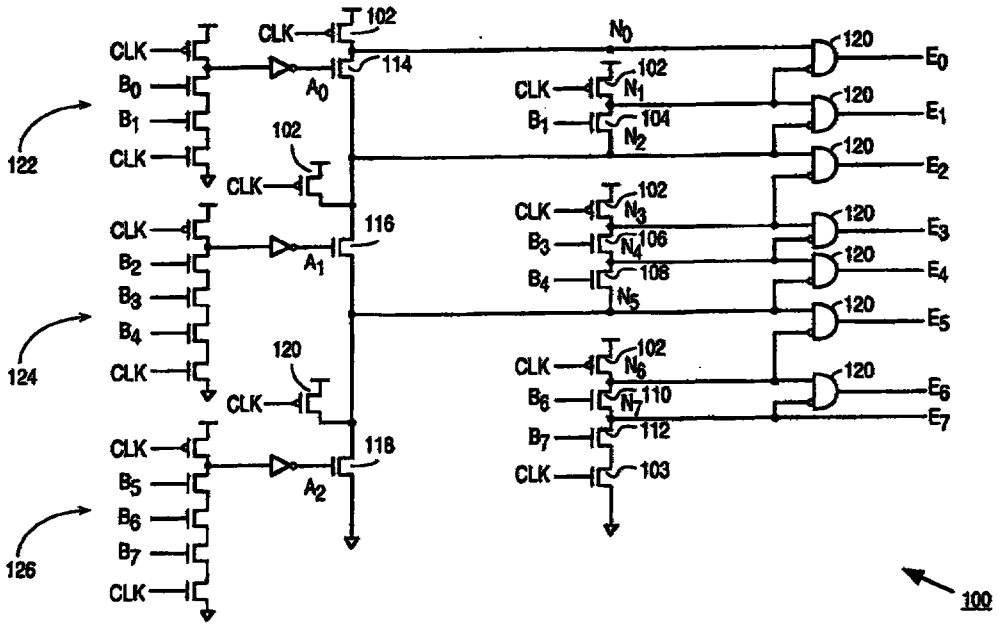
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(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: BROKEN STACK PRIORITY ENCODER



(57) Abstract

A broken stack domino priority encoder (100) to provide a set of voltages to uniquely identify the position of a leading zero in a binary word, the domino priority encoder comprising a by-pass stack of nMOSFETs and a broken stack of nMOSFETs to discharge various nodes. The stack depth of nMOSFETs between each node and ground is minimized in order to maximize switching speed of the priority encoder.