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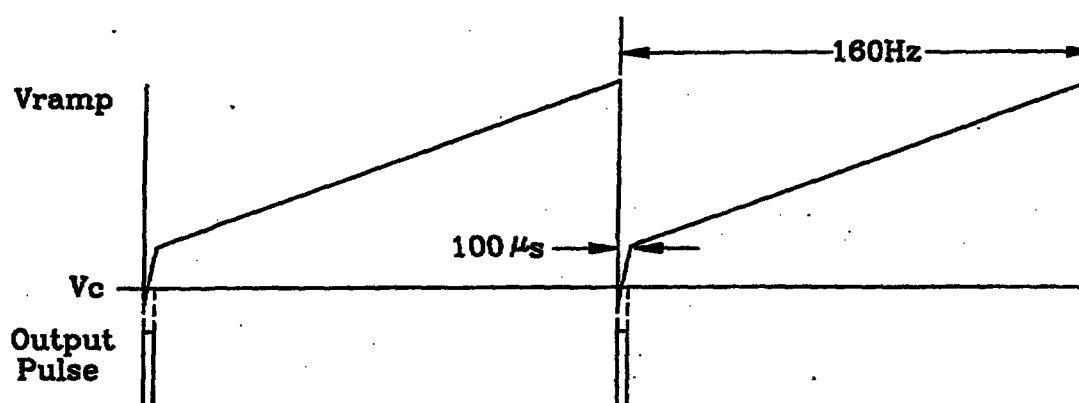
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H03K 7/08	A1	(11) International Publication Number: WO 98/27648
		(43) International Publication Date: 25 June 1998 (25.06.98)
(21) International Application Number: PCT/US97/18395	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, 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, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 9 October 1997 (09.10.97)		
(30) Priority Data: ① 08/760,548 ✓ 15 December 1996 (15.12.96) ✓ US ✓		
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		Published With international search report.
		1 PD 1 Appl. 1 Inv.

(54) Title: VERY LOW DUTY CYCLE PULSE WIDTH MODULATOR ✓



(57) Abstract

An apparatus which outputs very low duty cycle pulses of a consistent width. It is common to use a pulse width modulator as part of a liquid crystal display dimming system to vary the brightness. In the typical pulse width modulating scheme for lamp dimming, certain noise irregularities may appear at the beginning of a ramping voltage. These irregularities result in pulse widths which vary greatly. In the present invention, the slope of the ramping voltage is greatly increased at the beginning of the period, thus making the comparison between the reference voltage and the ramping voltage more accurate.

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