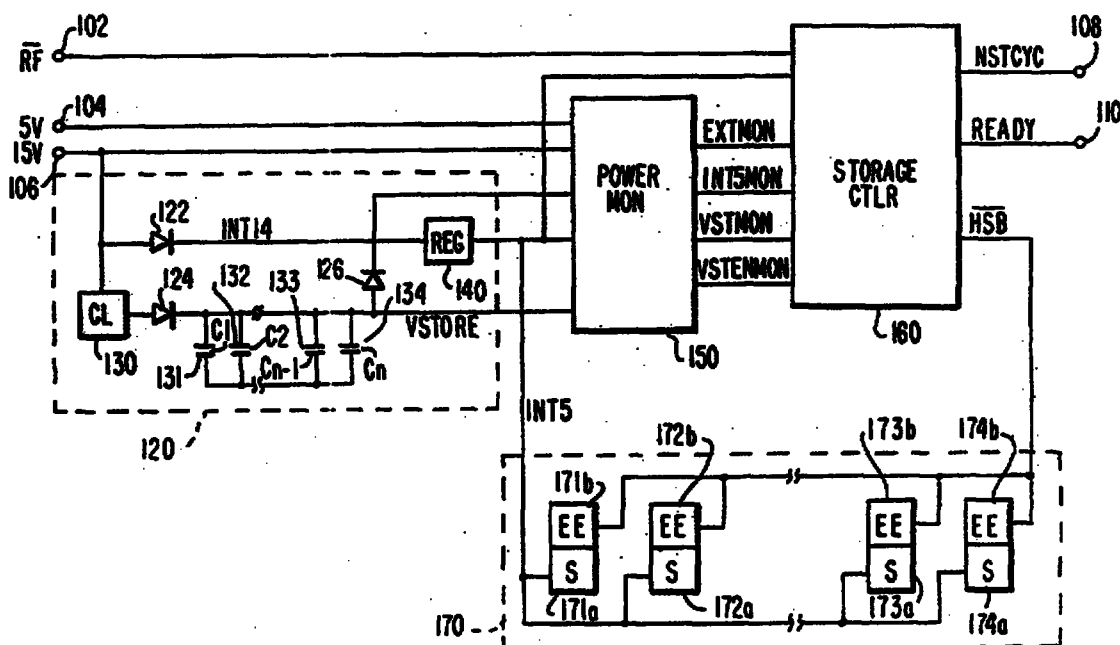




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G11C 11/30		A1	(11) International Publication Number: WO 96/10257
			(43) International Publication Date: 4 April 1996 (04.04.96)
(21) International Application Number: PCT/US95/11761 (22) International Filing Date: 15 September 1995 (15.09.95) (30) Priority Data: 08/314,158 ✓ 28 September 1994 (28.09.94) ✓ US (71) Applicant: SCI SYSTEMS, INC. [US/US]; 2101 West Clinton Avenue, Huntsville, AL 35805 (US). (72) Inventors: HARPER, James, Donald, Jr.; 128 Bright Road, Hazel Green, AL 35750 (US). COLE, Larry, Joe; 131 Tres Drive, Huntsville, AL 35811 (US). (74) Agent: NEFF, Gregor, N.; Curtis, Morris & Safford, P.C., 530 Fifth Avenue, New York, NY 10036 (US).		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, MW, SD, SZ, UG). Published With international search report.	

(54) Title: POWER BACKUP SYSTEM FOR VOLATILE MEMORY



(57) Abstract

In a preservation system (170) for a volatile memory (172) associated with a nonvolatile memory (171), an energy storage portion accumulates energy while power is provided normally. When a power outage occurs, the stored energy is supplied to the volatile memory. Enough backup power is stored to accommodate the vast majority of unintentional interruption of power. Eventually, after removal of external power, when the backup power decreases to a predetermined amount, data in the volatile memory is transferred to the nonvolatile memory. The preferred use for the preservation system is an environment with vibration and/or power switching transients that affects the supply of power, such as an aircraft.

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