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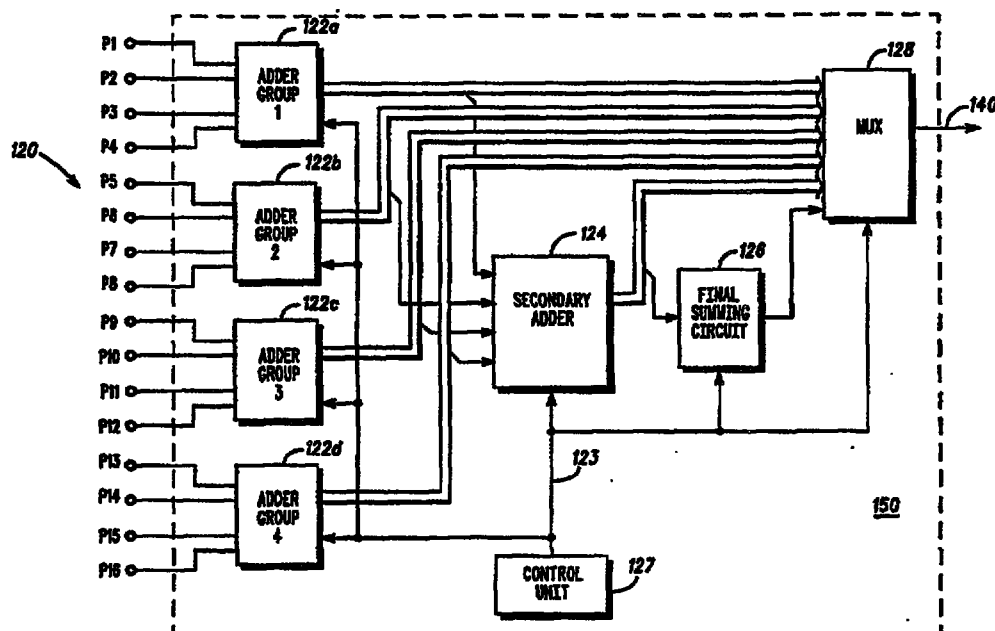
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| <b>(21) International Application Number:</b> <b>PCT/US96/05348</b><br><b>(22) International Filing Date:</b> <b>18 April 1996 (18.04.96)</b><br><b>(30) Priority Data:</b><br><b>08/455,927</b> <b>31 May 1995 (31.05.95)</b> <b>US</b><br><b>(71) Applicant (for all designated States except US):</b> <b>MOTOROLA INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).</b><br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> <b>PAN, ShaoWei [CN/US]; Suite 202, 1931 Prairie Square, Schaumburg, IL 60173 (US). WANG, Shay-Ping, T. [US/US]; 1701 Edgewood Lane, Long Grove, IL 60047 (US).</b><br><b>(74) Agents:</b> <b>STUCKMAN, Bruce, E. et al.; Motorola Inc., Intellectual Property Dept., 1303 East Algonquin Road, Schaumburg, IL 60196 (US).</b> | <b>(81) Designated States:</b> <b>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, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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).</b><br><br><b>Published</b><br><i>With international search report.</i> |                                                                                                                                                   |

(54) Title: **ACCUMULATOR CIRCUIT AND METHOD OF USE THEREOF**



(57) Abstract

An accumulator is provided which includes a plurality of summing circuits (24a-24h), a plurality of switches (32b-32h), and a control unit (20) for controlling the transmission of data generated by the summing circuits. Each summing circuit generates intermediate sums and includes a port for transmitting the intermediate sums. The switches are connected between the ports of the summing circuits. The control unit is programmable to operate the switches and enable the ports at various times, thus allowing the accumulator to be configured to perform any of a variety of summing operations.