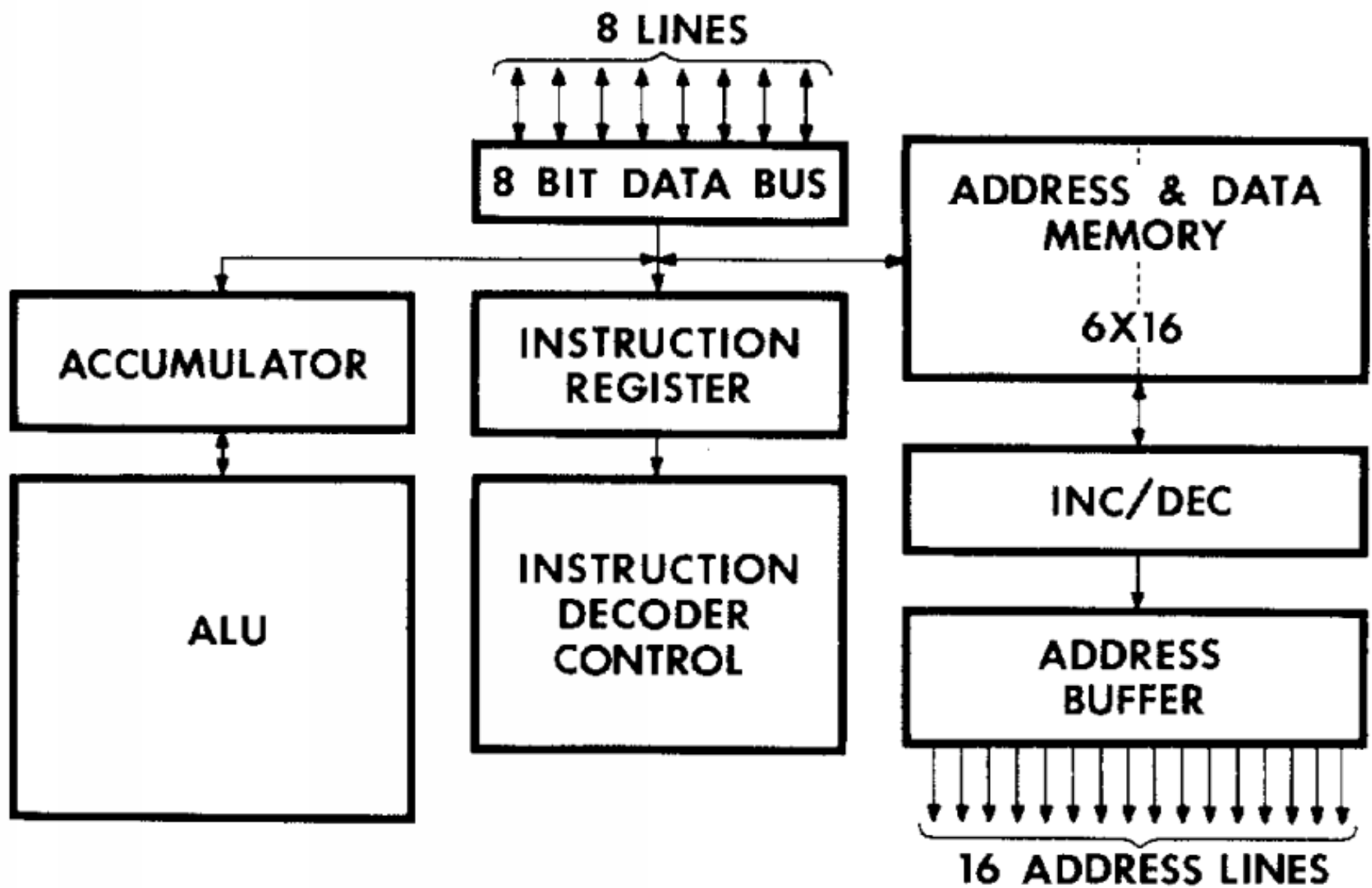


FIRST NMOS SINGLE CHIP MICROPROCESSOR

ISSCC 1974



An N-Channel 8-Bit Single Chip Microprocessor

THIS PAPER ANNOUNCED an important milestone in digital microprocessor design; the first single-chip general purpose microprocessor (the 8080) implemented with NMOS logic. The use of NMOS logic became possible when NMOS gate stability problems were solved. With an improved power-delay product (compared to PMOS) circuits, NMOS logic provided for higher levels of integration, and allowed multiple functional blocks to be built on the same chip. This advance marked the launch of the PC industry.

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