

## United States Patent [19]

### **Cowles**

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[54] CONTINUOUS BURST EDO MEMORY DEVICE

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[73] Assignee: Micron Technology, Inc., Boise, Id.

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[22] Filed: Dec. 14, 1995

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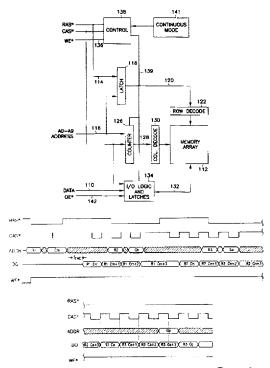
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### [57] ABSTRACT

An integrated circuit memory device is described which can operate at high data speeds. The memory device can either store or retrieve data from the memory in a burst access operation. The burst operations latch a memory address from external address lines and internally generates additional memory addresses. The integrated circuit memory can output data in a continuous stream while new rows of the memory are accessed. A method and circuit are described for outputting a burst of data stored in a first row of the memory while accessing a second row of the memory.

### 20 Claims, 7 Drawing Sheets







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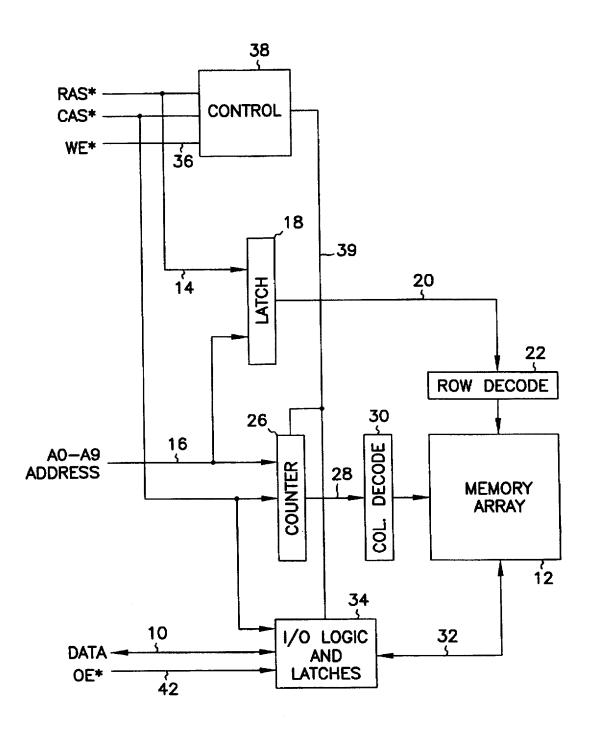


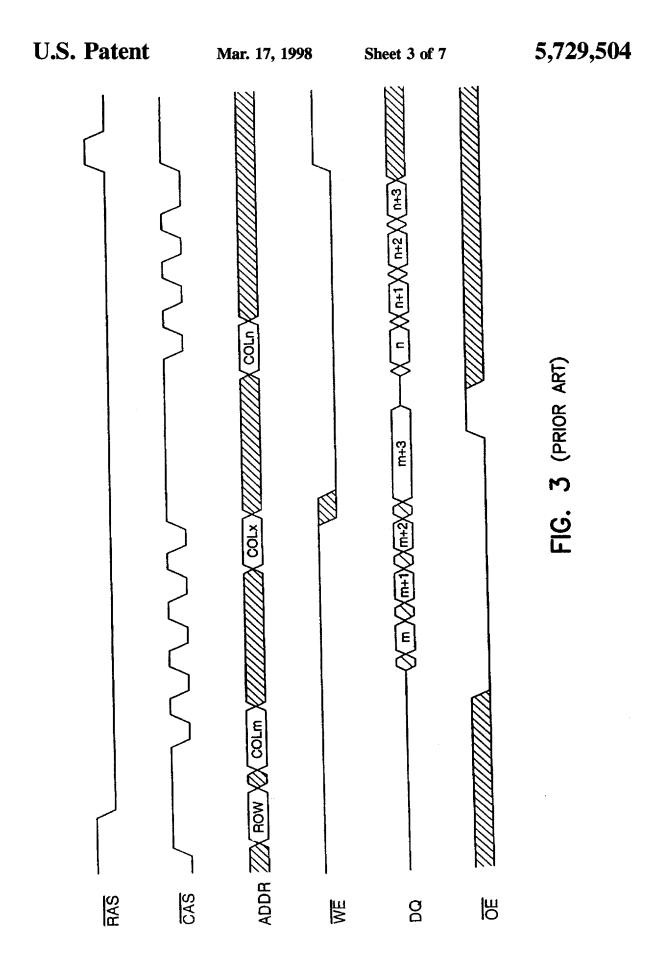
FIG. 1 (PRIOR ART)



FIG. 2 PRIOR ART)

	Starti	Starting Column	lumn		
Burst Lenath	A <sub>2</sub>	Address A <sub>1</sub>	s A <sub>o</sub>	Linear	Interleave
	>	>	0	0-1	1-0
	>	>	-	1-0	1-0
	>	0	0	0-1-2-3	0-1-2-3
	>	0	-	1-2-3-0	1-0-3-2
	>	-	0	2-3-0-1	2-3-0-1
	>	-	-	3-0-1-2	3-2-1-0
	0	0	0	0-1-2-3-4-5-6-7	0-1-2-3-4-5-6-7
	0	0	-	1-2-3-4-5-6-7-0	1-0-3-2-5-4-7-6
	0	-	0	2-3-4-5-6-7-0-1	2-3-0-1-6-7-4-5
	0	-	-	3-4-5-6-7-0-1-2	3-2-1-0-7-6-5-4
	-	0	0	4-5-6-7-0-1-2-3	4-5-6-7-0-1-2-3
	-	0	-	5-6-7-0-1-2-3-4	5-4-7-6-1-0-3-2
	-	-	0	6-7-0-1-2-3-4-5	6-7-4-5-2-3-0-1
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