



- [54] **PAD INPUT SELECT CIRCUIT FOR USE WITH BOND OPTIONS**
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- [73] Assignees: **United Memories, Inc.**, Colorado Springs; **Nippon Steel Semiconductor Corporation**, Chiba, Japan
- [21] Appl. No.: **08/833,105**
- [22] Filed: **Apr. 4, 1997**
- [51] **Int. Cl.⁶** **G06F 12/00; G11C 7/00**
- [52] **U.S. Cl.** **711/170; 365/189.02; 365/230.02**
- [58] **Field of Search** **711/170; 365/189.02, 365/230.02; 395/653**

FOREIGN PATENT DOCUMENTS

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Assistant Examiner—Tuan V. Thai
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[57] **ABSTRACT**

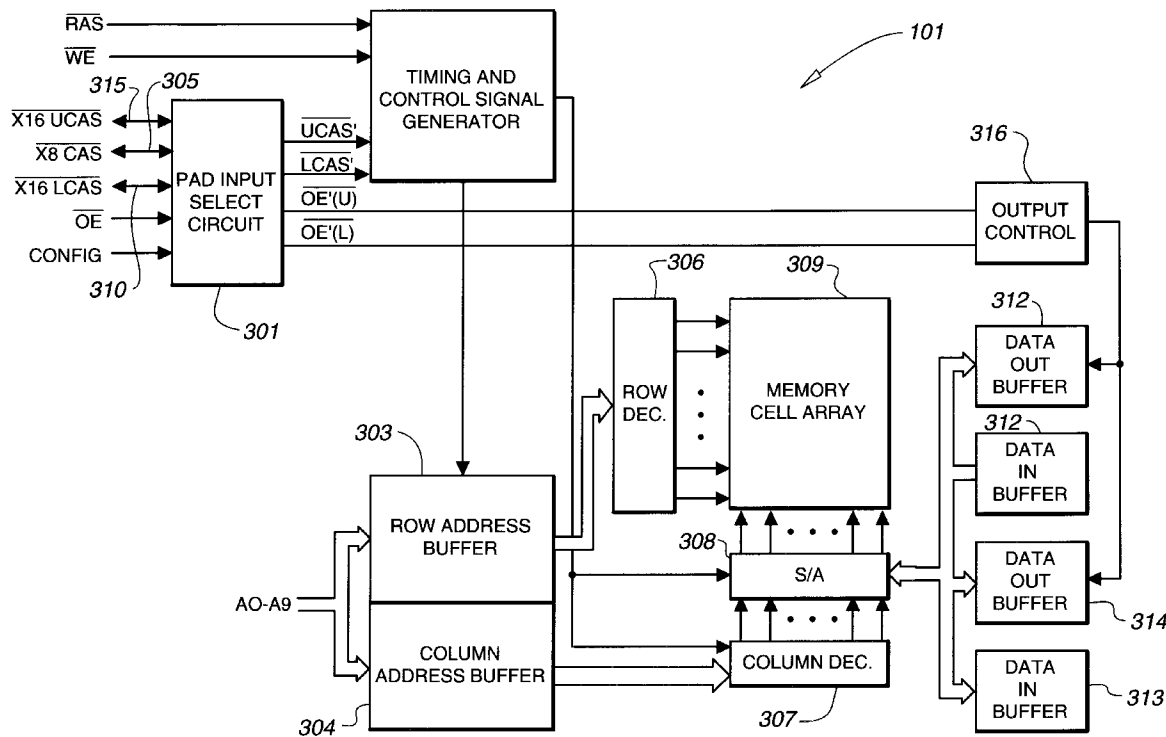
A configurable input device for an integrated circuit having a plurality of input pads, the input device including a plurality of buffers, where each buffer is associated with one of the input pads. Each buffer receives a mode select signal and the buffer is responsive to the mode select signal to place the buffer in an enabled mode or a disabled mode. A receiver portion within each buffer is coupled to the associated input pad. The receiver portion pulls the associated input pad to a preselected logic state while the buffer is in the disabled mode. An output driver within each buffer generates an output signal responsive to a signal on the associated input pad while the buffer is in the enable mode and provides a high impedance while the buffer is in the disabled mode. An output node is coupled to the output drivers of the plurality of buffers.

[56] **References Cited**

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18 Claims, 5 Drawing Sheets



Qualcomm Incorporated

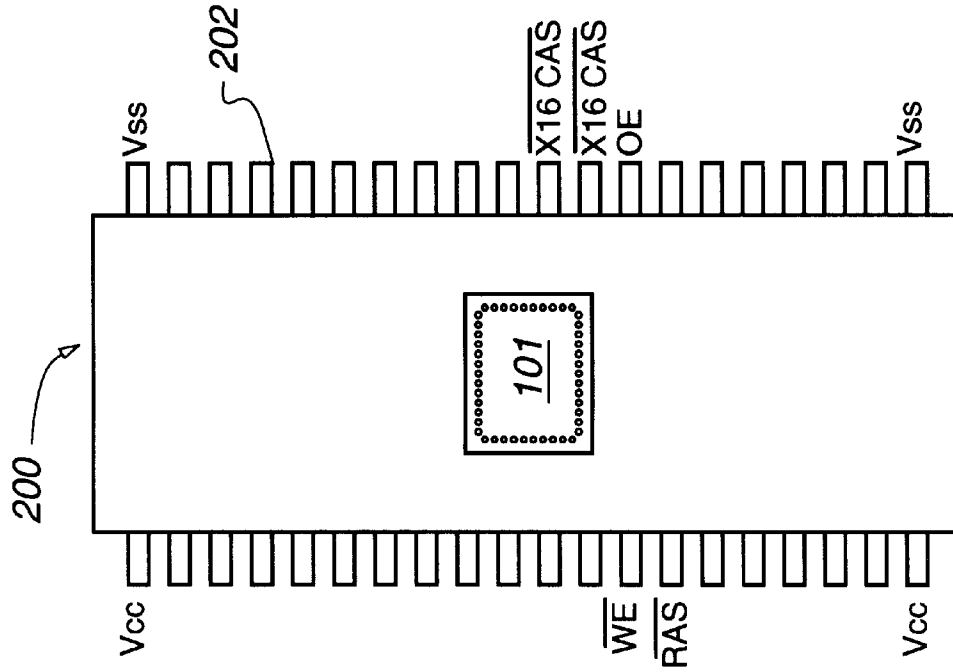


Fig. 1

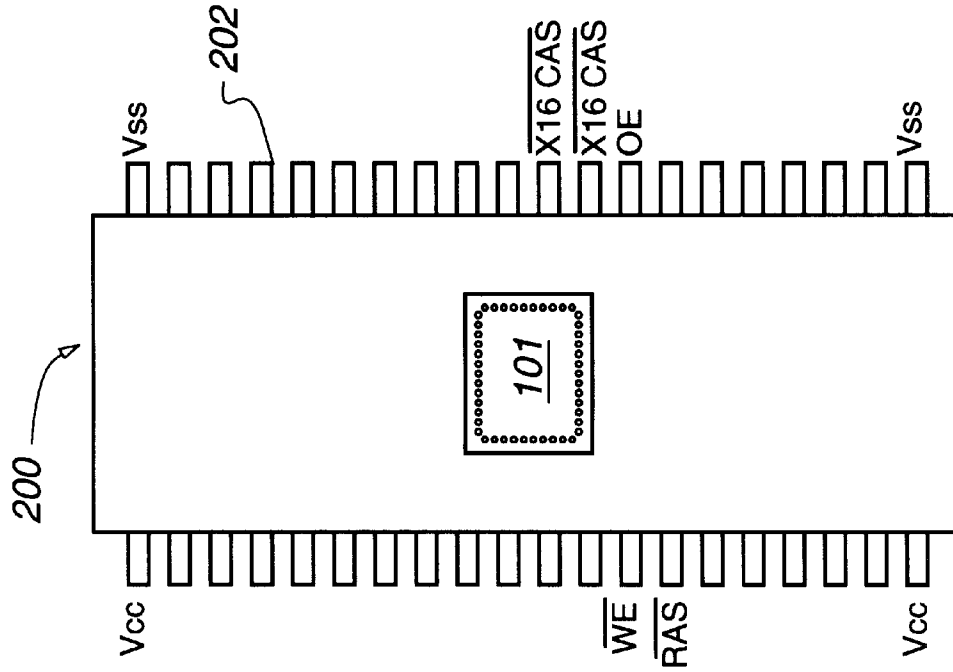


Fig. 2

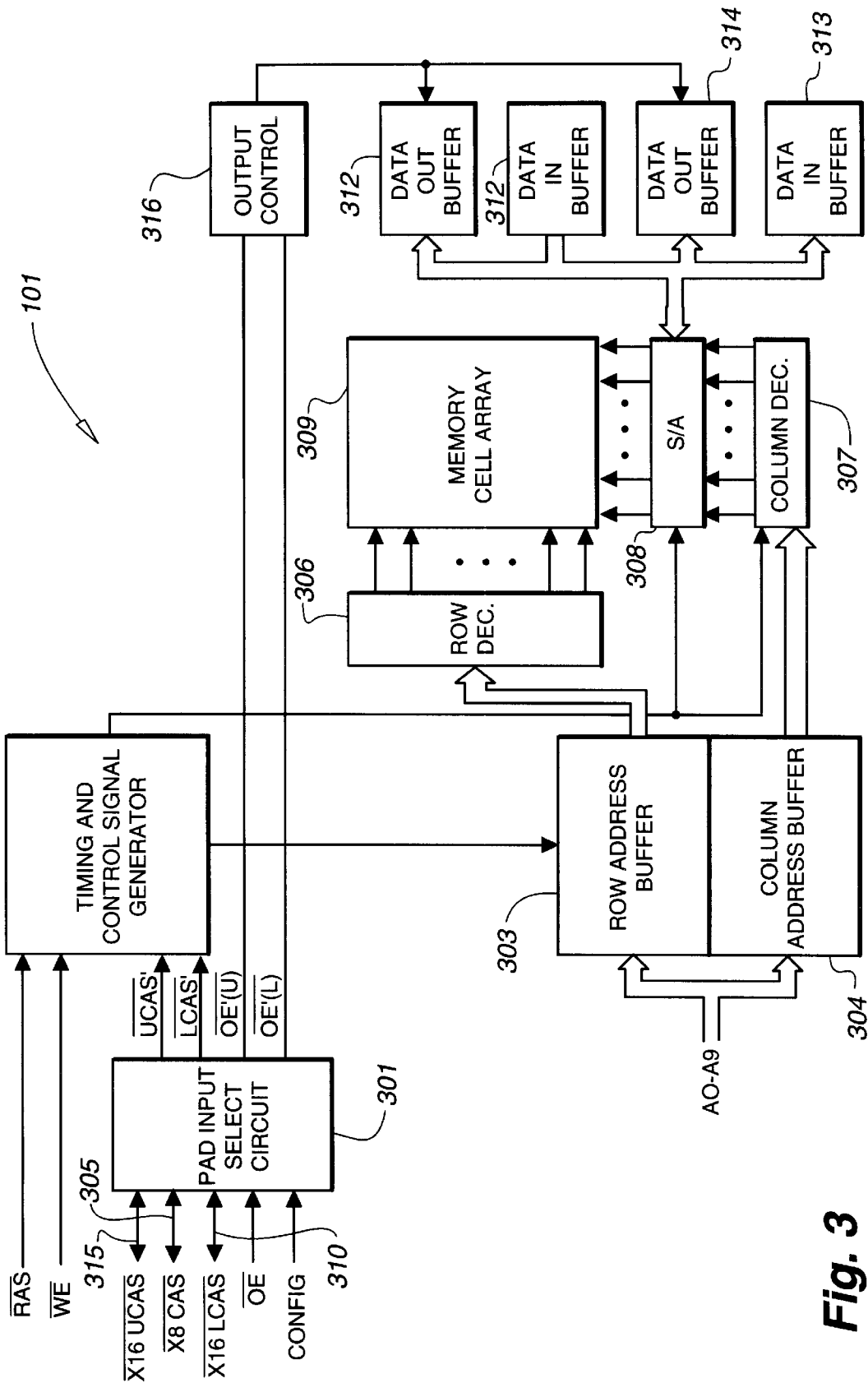


Fig. 3

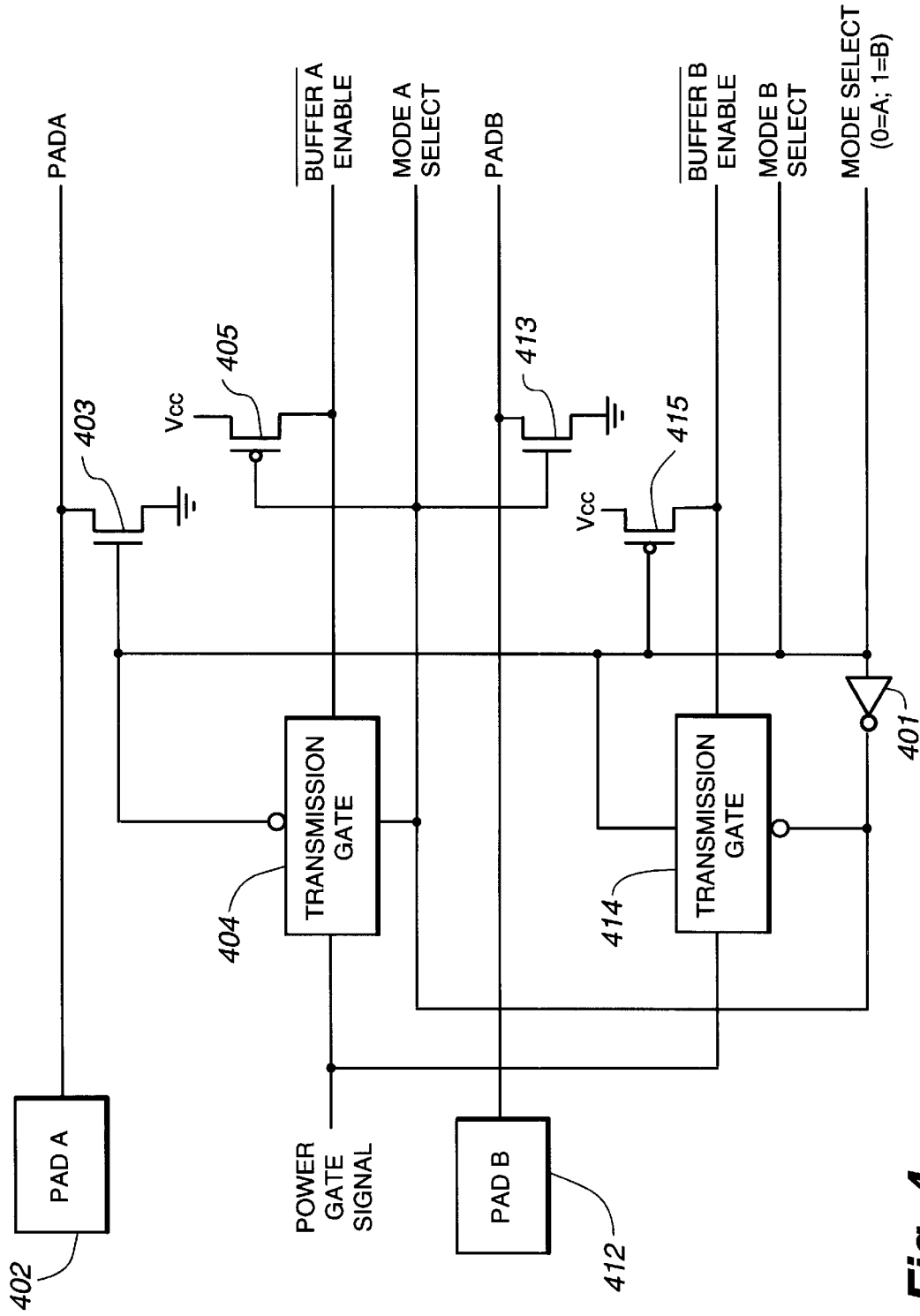


Fig. 4

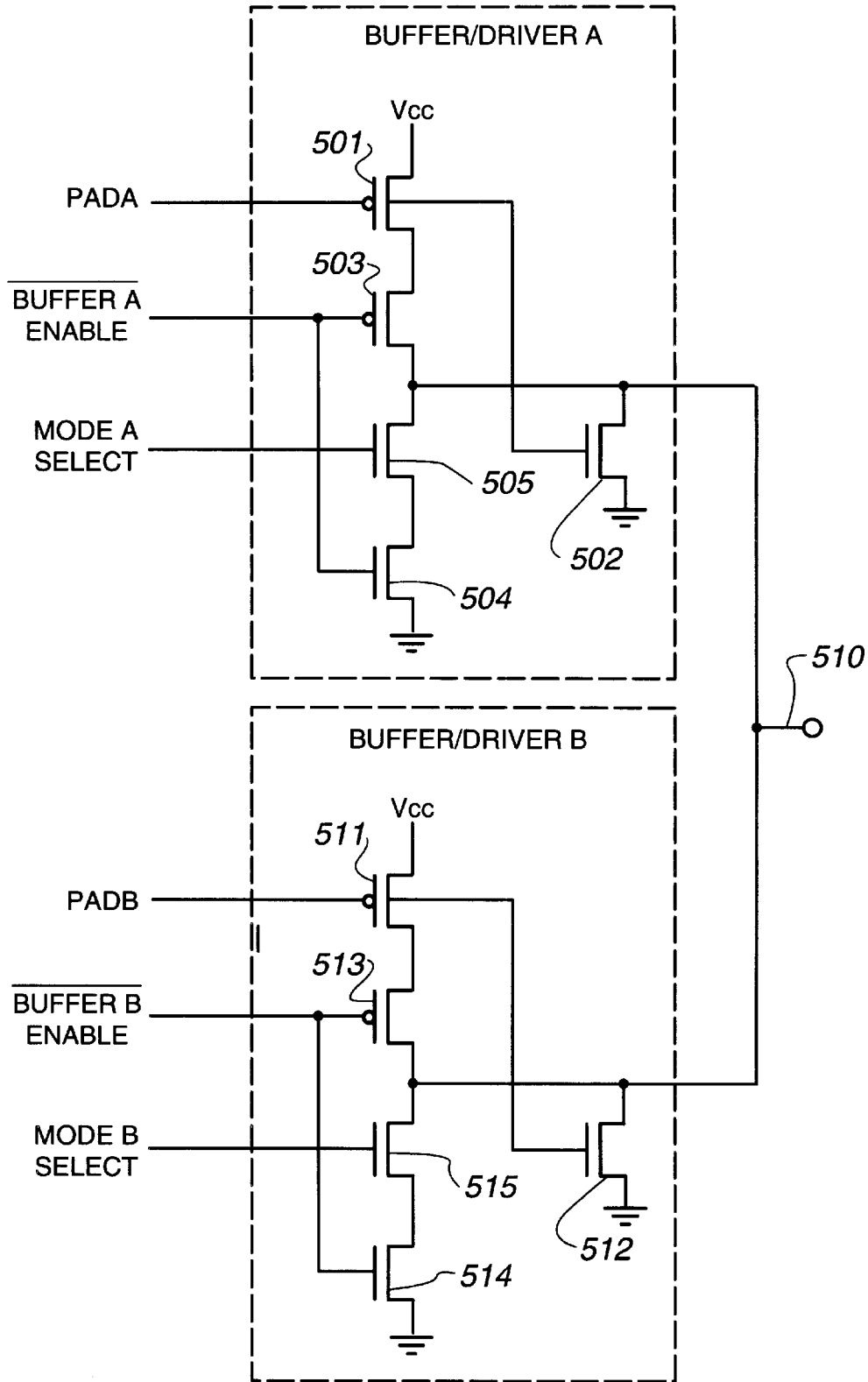


Fig. 5

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