

United States Patent [19]

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Tiede et al.

[54] PAD INPUT SELECT CIRCUIT FOR USE WITH BOND OPTIONS

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- [51] Int. Cl.⁶ G06F 12/00; G11C 7/00
- [52] U.S. Cl. 711/170; 365/189.02; 365/230.02

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,551,634	11/1985	Takahashi et al
4,825,099	4/1989	Barton 307/270
5,373,470	12/1994	Jones, Jr
5,406,525	4/1995	Nicholes .
5,572,718	11/1996	Scriber et al
5,600,271	2/1997	Erickson et al 327/108
5,706,235	1/1998	Roohparvar et al 365/201
5,757,704	5/1998	Hachiya 365/189.02

FOREIGN PATENT DOCUMENTS

0 198 429 A2	10/1986	European Pat. Off
0 513 968 A2	11/1992	European Pat. Off
2 271 449	4/1994	United Kingdom .

Primary Examiner-Tod R. Swann

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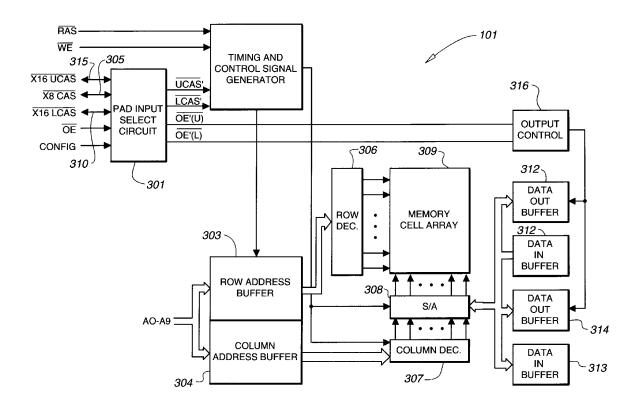
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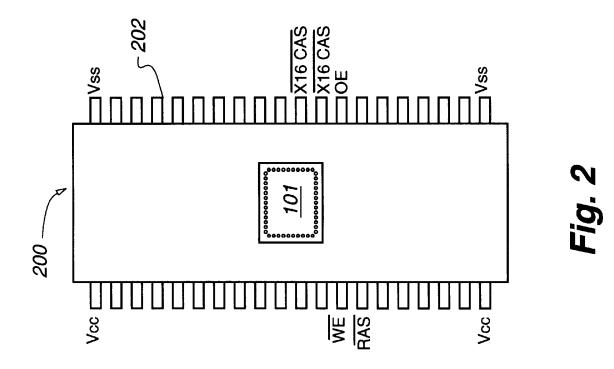
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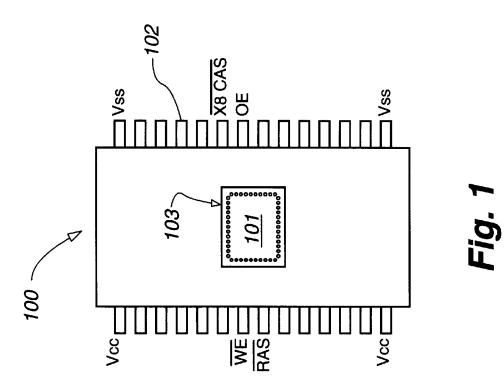
[57] ABSTRACT

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.

18 Claims, 5 Drawing Sheets

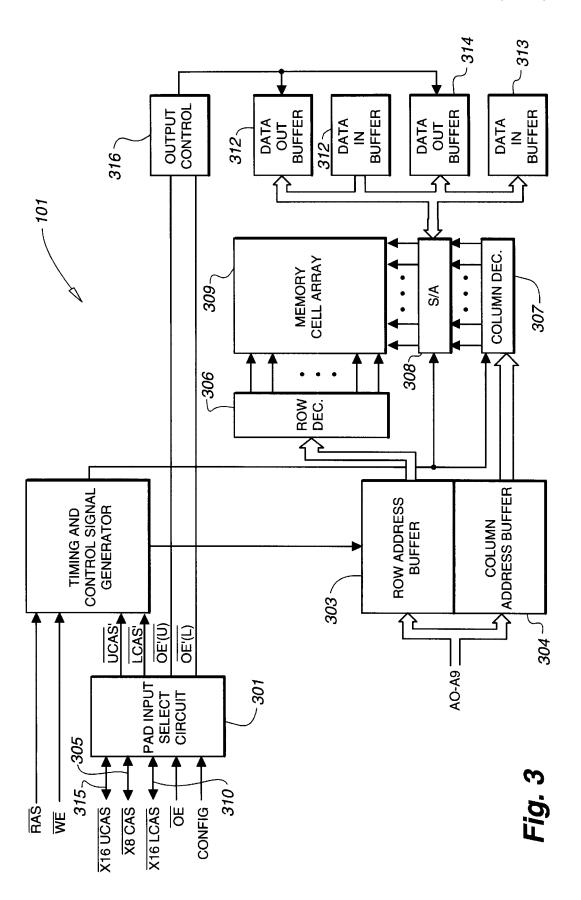


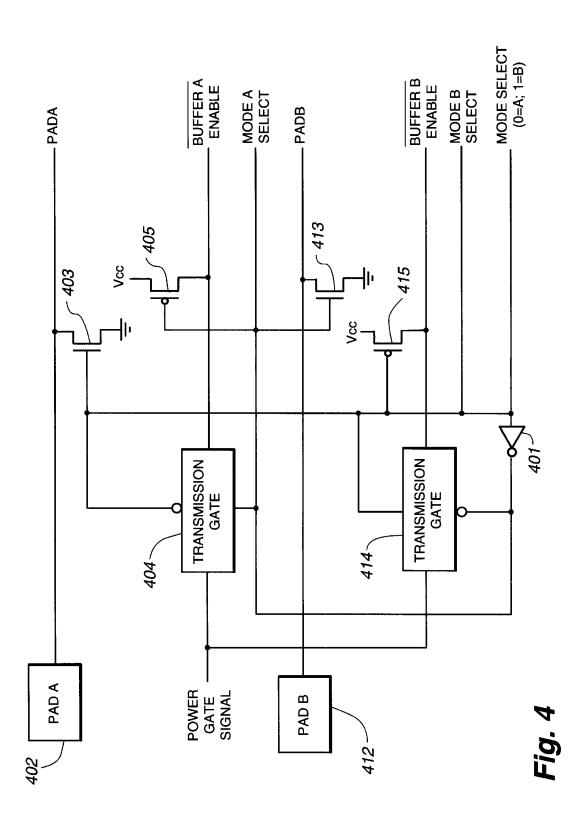




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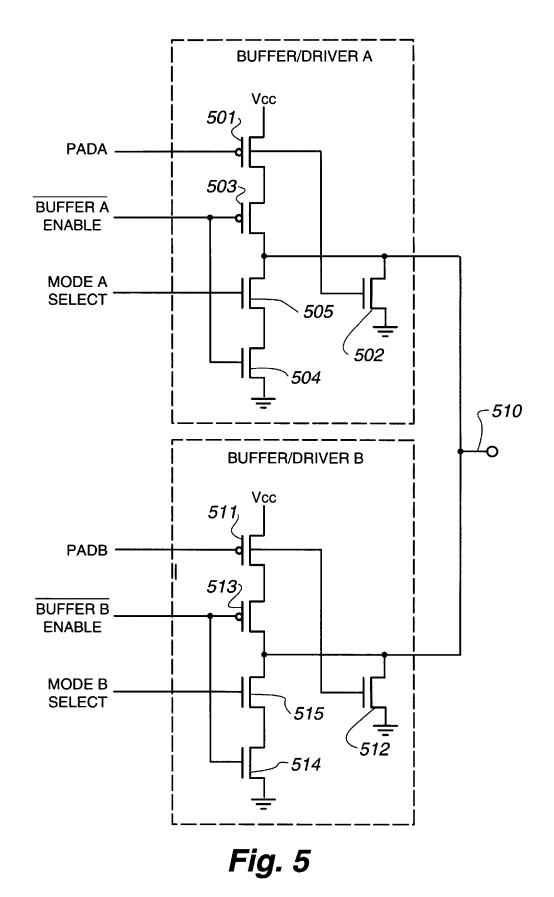
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