

[54] **EXPANSION CARD INSERTION AND REMOVAL** 5,680,288 10/1997 Carey et al. .... 361/118

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[51] **Int. Cl.<sup>6</sup>** ..... **G06F 13/00**

[52] **U.S. Cl.** ..... **710/103**

[58] **Field of Search** ..... 397/282, 283,  
397/293-305

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*Assistant Examiner*—Paul R. Myers  
*Attorney, Agent, or Firm*—Sharp, Comfort & Merrett, P.C.

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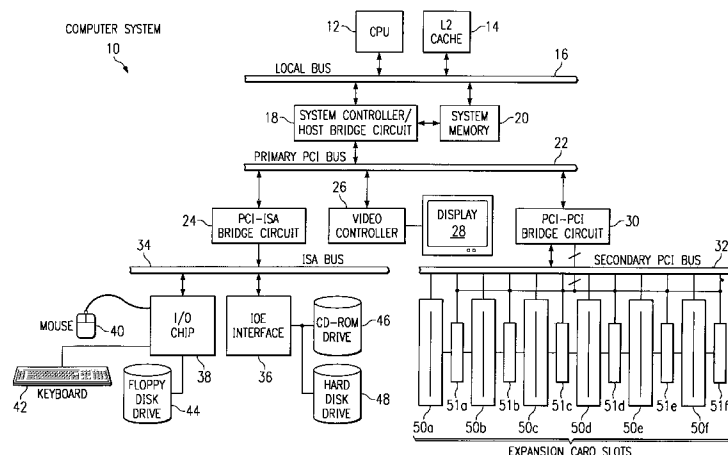
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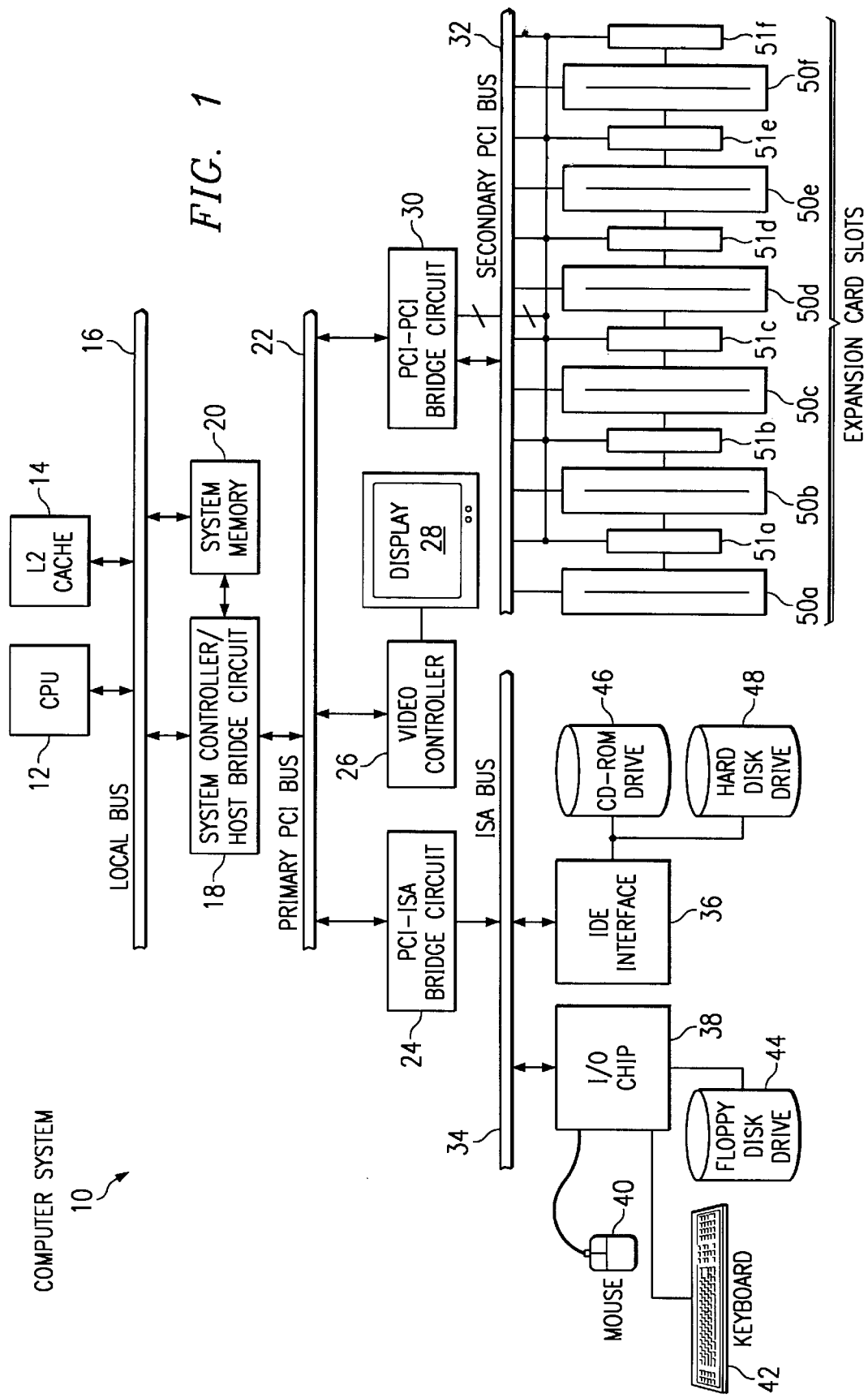
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[57] **ABSTRACT**

The invention features a circuit card for use with a computer system having a card slot electrically connected to a bus. The card slot has electrical contacts corresponding to lines of the bus. The circuit card has a first pin positioned to extend into the card slot when the card is inserted into the slot and contact a first electrical contact of the slot corresponding to a communication line of the bus. The circuit card also has a second pin positioned to extend into the card slot when the card is inserted into the slot and contact a second electrical contact of the slot corresponding to a clock line of the bus before the first pin contacts the first electrical contact.

**9 Claims, 11 Drawing Sheets**





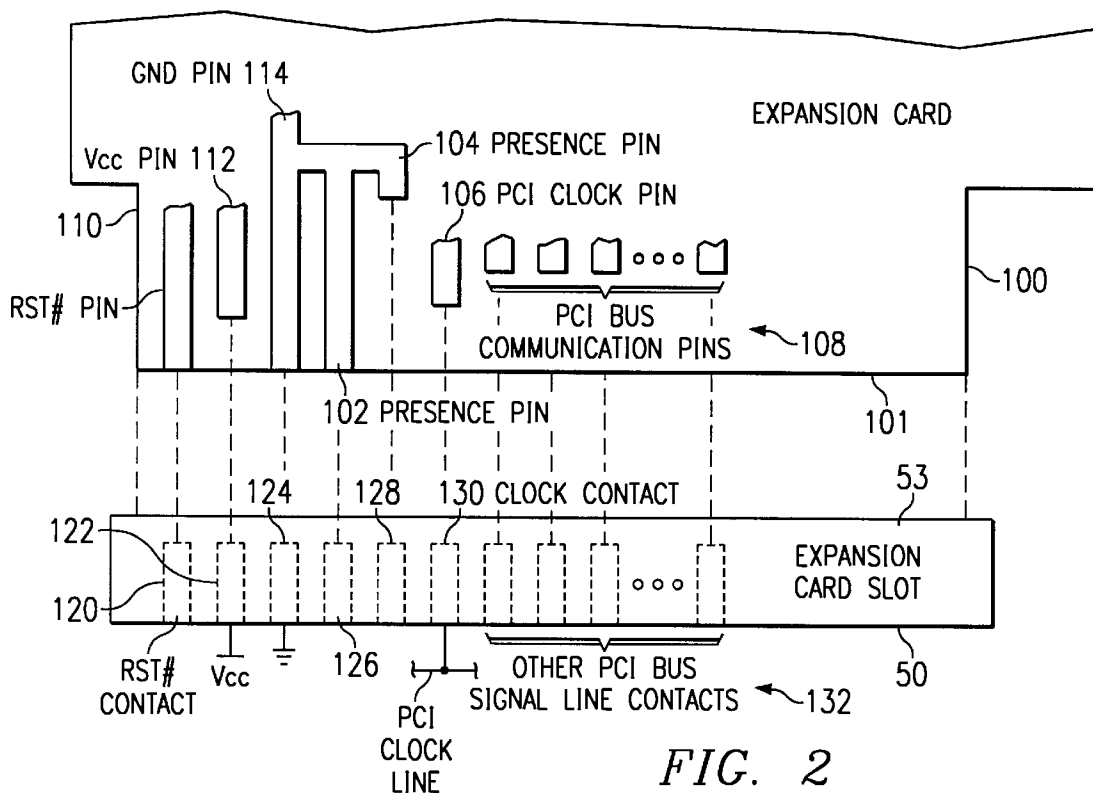


FIG. 2

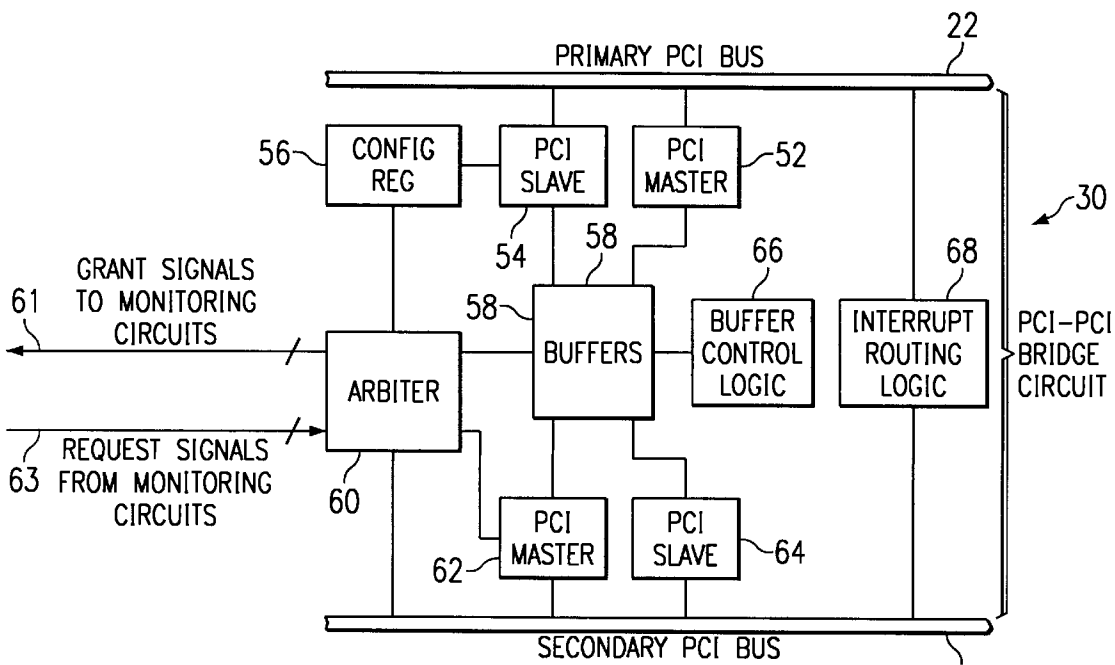


FIG. 3

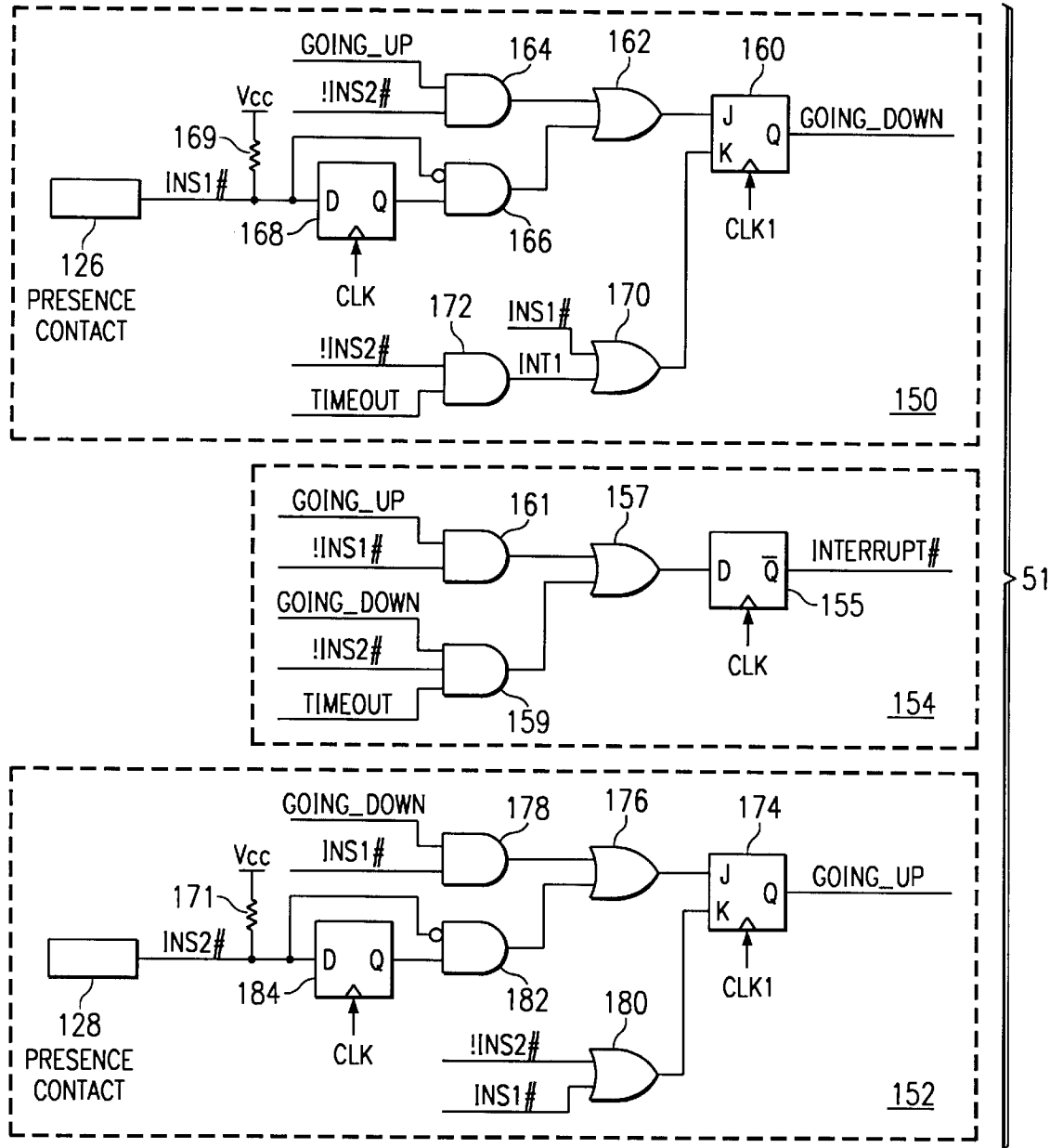


FIG. 4A

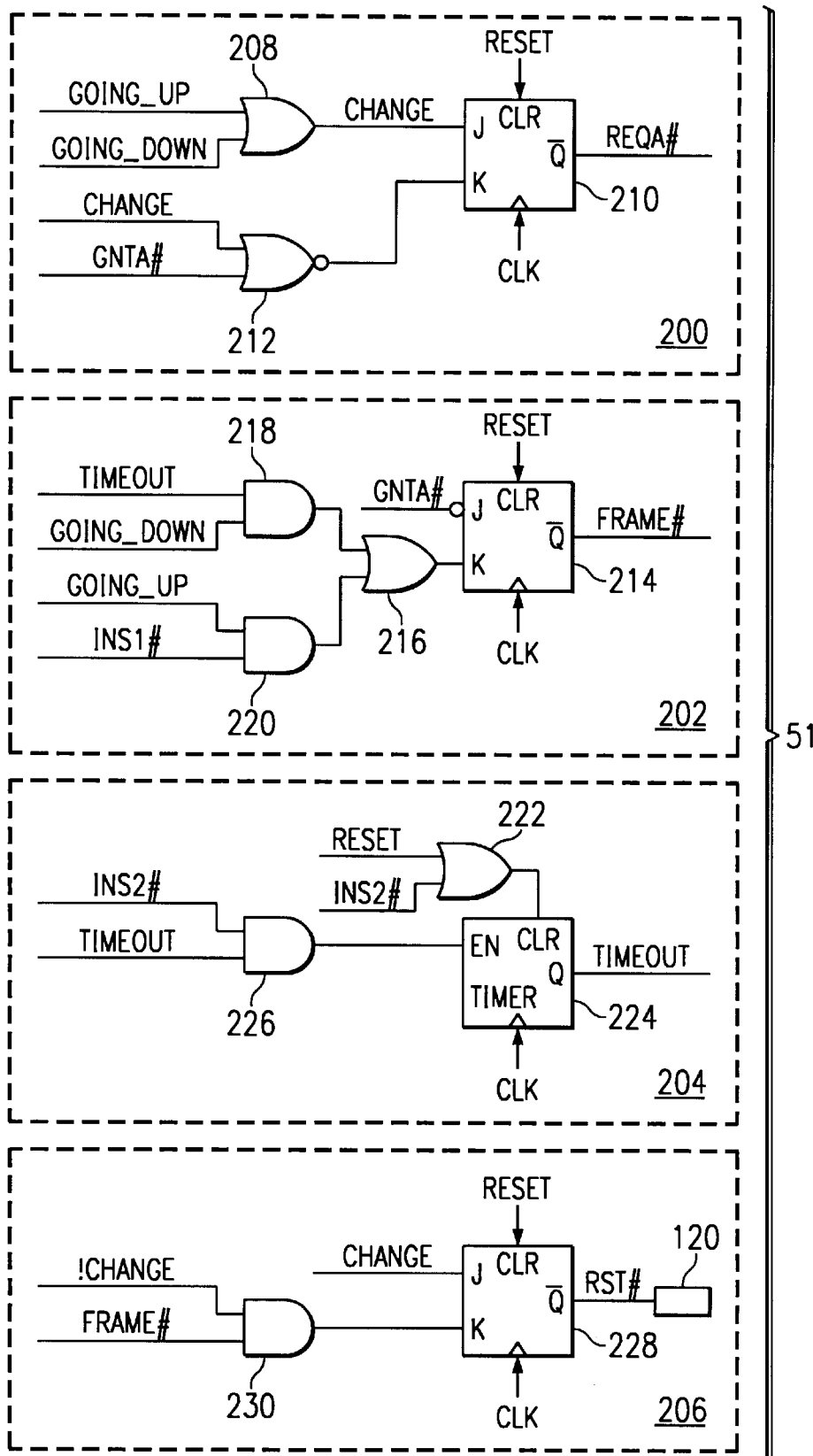


FIG. 4B

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