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Sundaram et al.

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(54) **METHOD AND SYSTEM FOR RELIABLE  
DEVICE CONFIGURATION IN A  
COMPUTER SYSTEM**

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(\* ) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**<sup>7</sup> ..... **G06F 3/00**; G06F 9/00;  
G06F 17/00

(52) **U.S. Cl.** ..... **710/19**; 710/8; 710/15;  
710/16; 710/17; 710/18; 710/20; 715/705;  
715/708

(58) **Field of Search** ..... 710/1-74, 315,  
710/302; 345/772; 709/310, 227; 370/402;  
700/17

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*Primary Examiner*—Jeffrey Gaffin

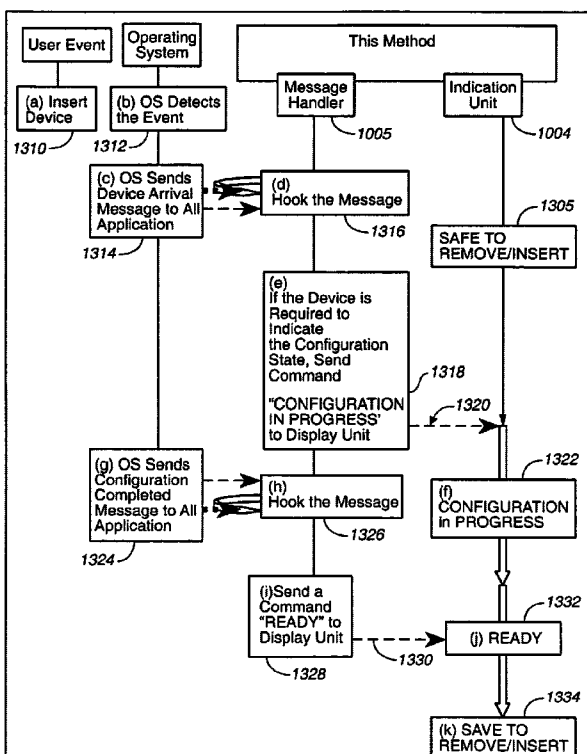
*Assistant Examiner*—Joshua D Schneider

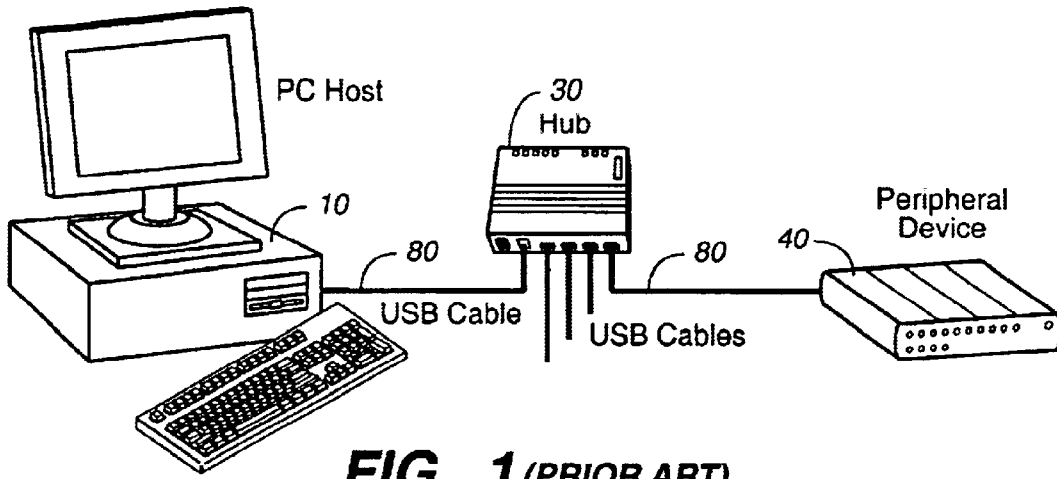
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(57) **ABSTRACT**

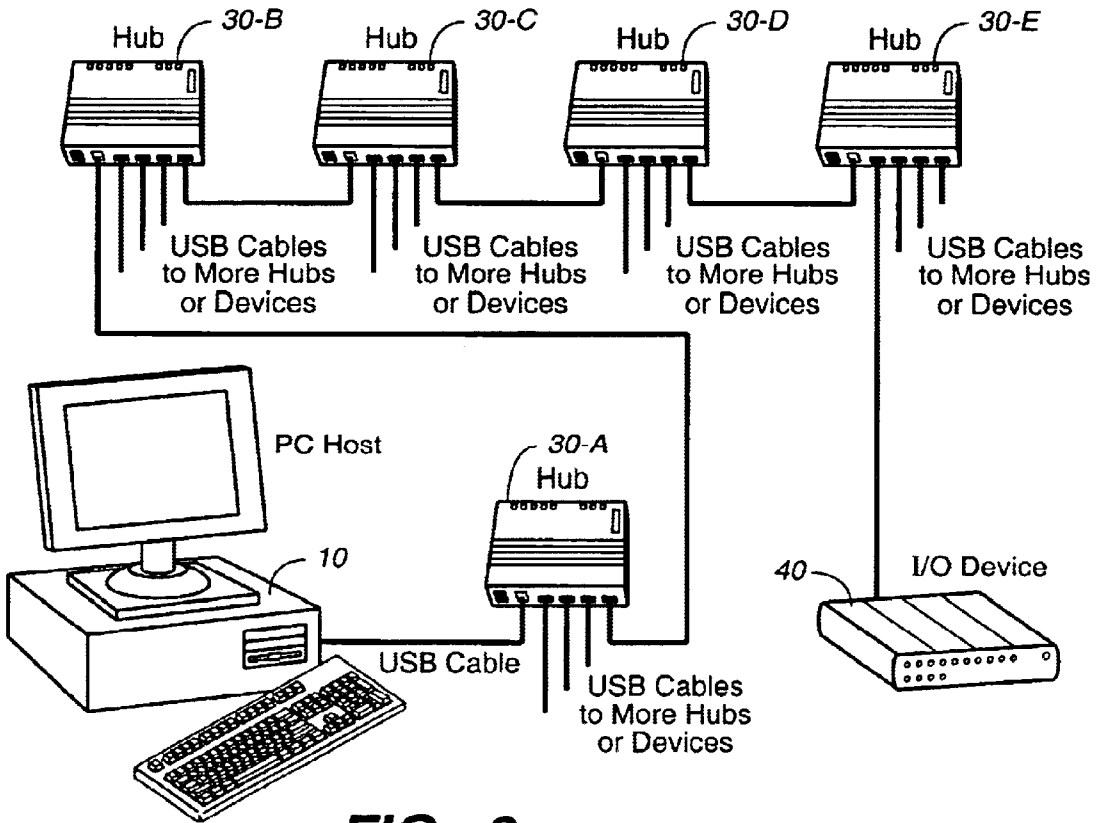
A configuration notification unit monitors internal messages generated by an operating system of a computer related to a device configuration process for plug and play devices coupled to the computer via a serial bus interface. The configuration notification unit outputs a real time warning to the user when it is unsafe to change the number of devices coupled to the computer. In a preferred embodiment, the configuration notification unit include a message handler coupled to an indication unit.

**27 Claims, 13 Drawing Sheets**

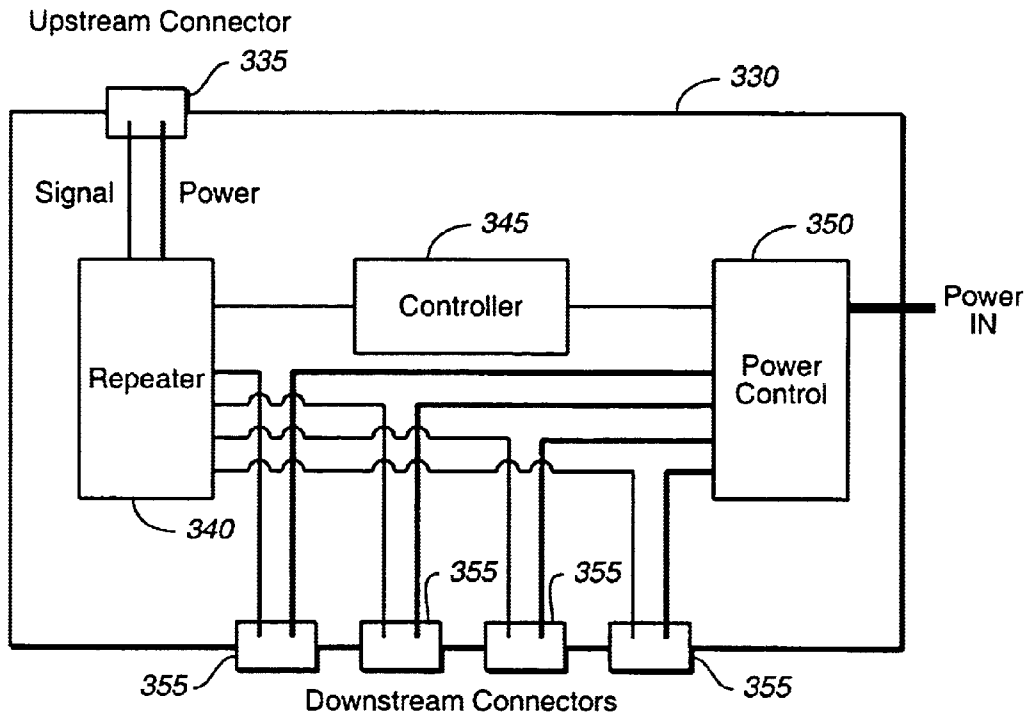




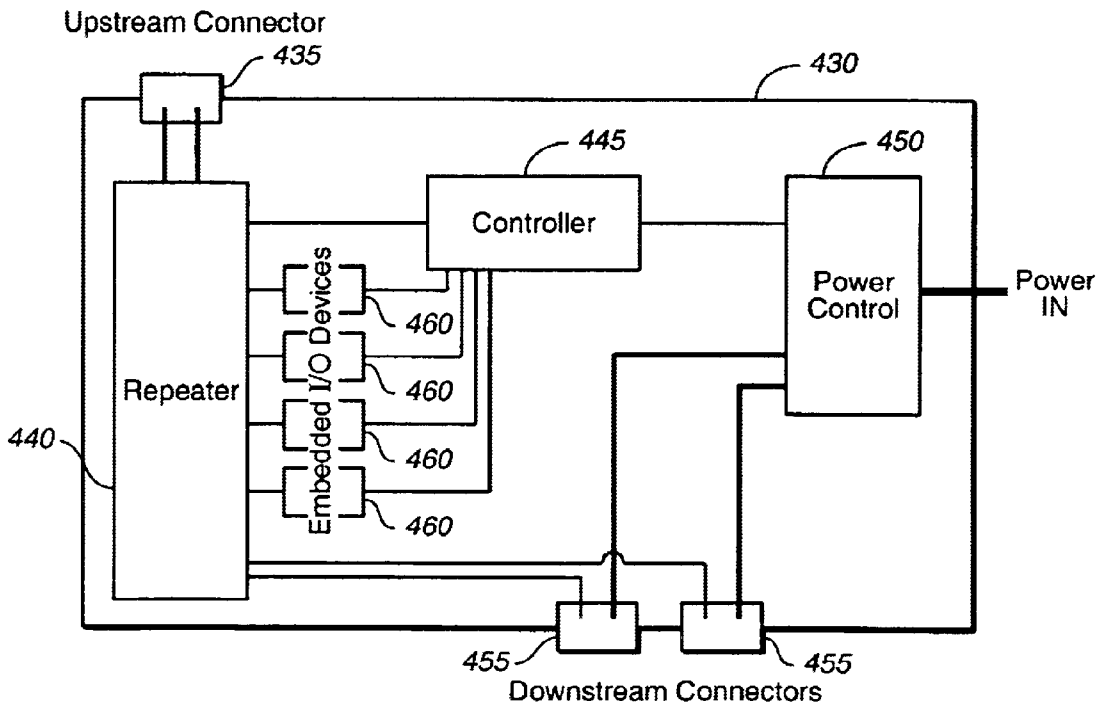
**FIG.\_1 (PRIOR ART)**



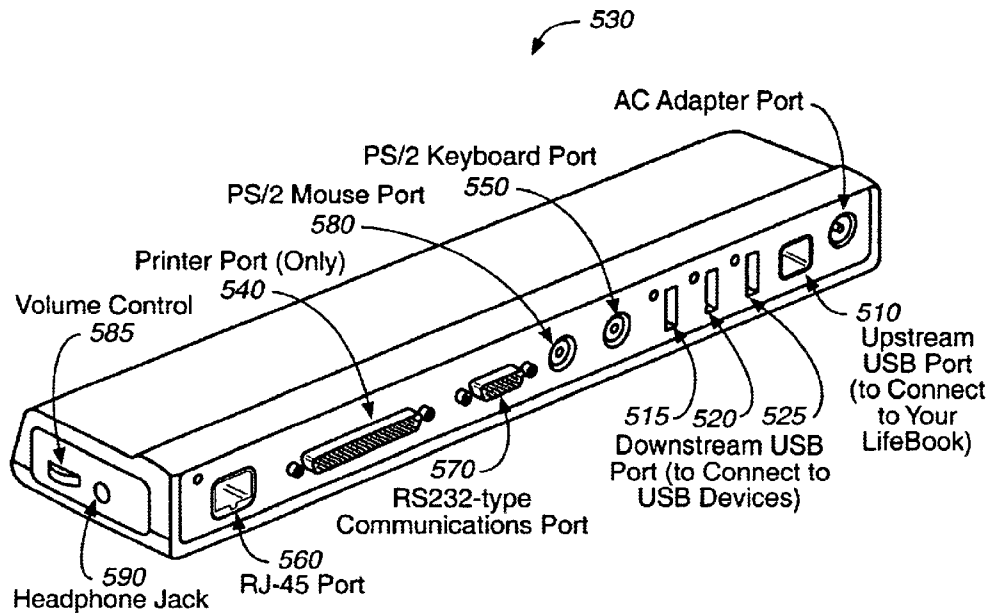
**FIG.\_2 (PRIOR ART)**



**FIG. 3 (PRIOR ART)**



**FIG. 4 (PRIOR ART)**



**FIG. 5A (PRIOR ART)**

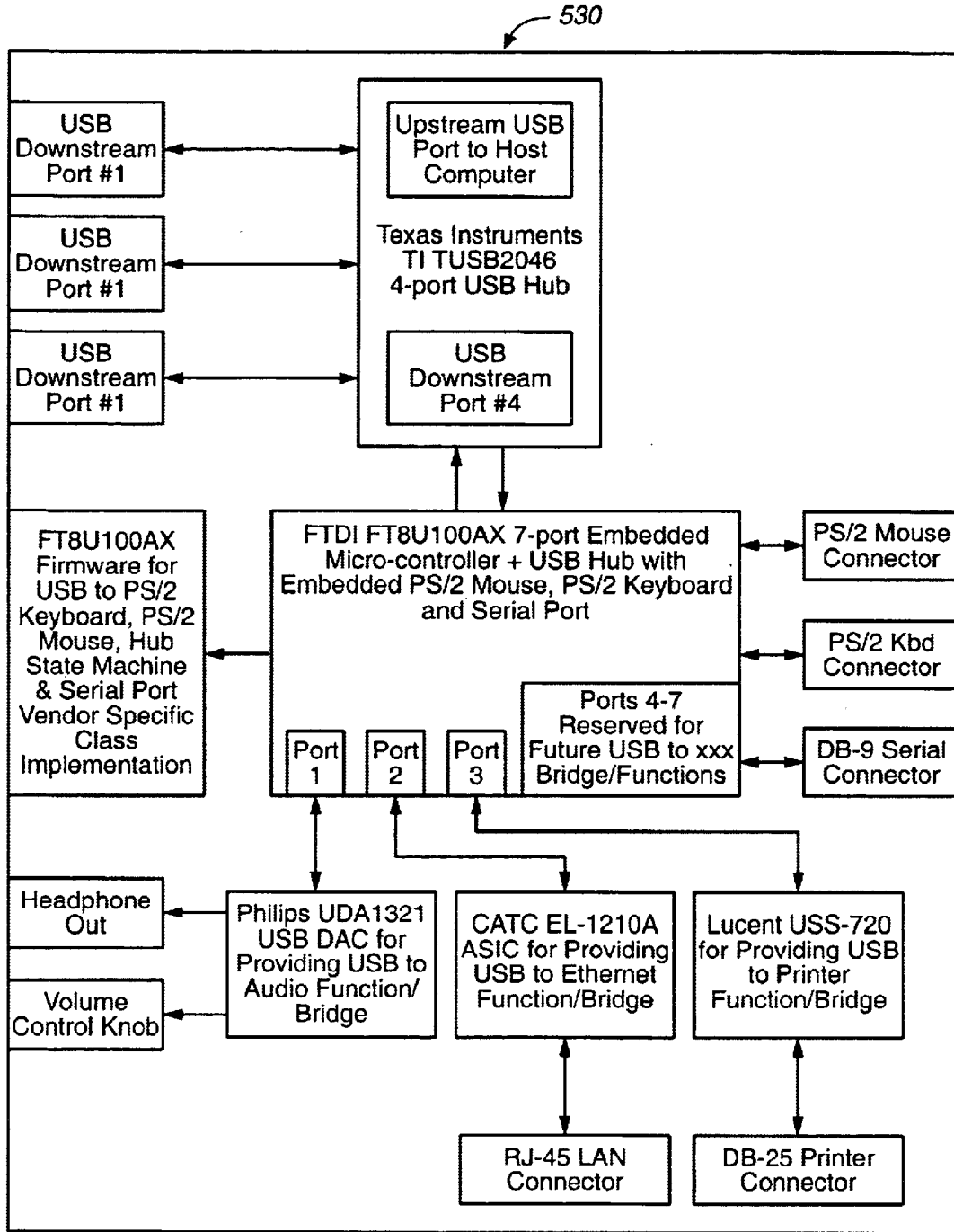


FIG. 5B (PRIOR ART)

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