

**(12) United States Patent**  
**Gioscia et al.**

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**(54) PERSONAL MUSIC DEVICE WITH A GRAPHICAL DISPLAY FOR CONTEXTUAL INFORMATION**

**(75) Inventors:** **Richard Gioscia**, Mahwah, NJ (US);  
**Yumi Sonoda**, Los Altos, CA (US);  
**Jan-Christoph Zoels**, Brooklyn, NY (US)

**(73) Assignees:** **Sony Corporation (JP); Sony Electronics, Inc.**, Park Ridge, NJ (US)

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**(52) U.S. Cl. .... 369/30.06; 345/156; 345/173; 345/636; 369/24; 369/30; 369/33; 369/34; 369/37**

**(58) Field of Search ..... 345/173, 156, 345/159, 169, 636; 369/24, 30, 30.06, 33, 34, 37**

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*Primary Examiner*—Richard Hjerpe

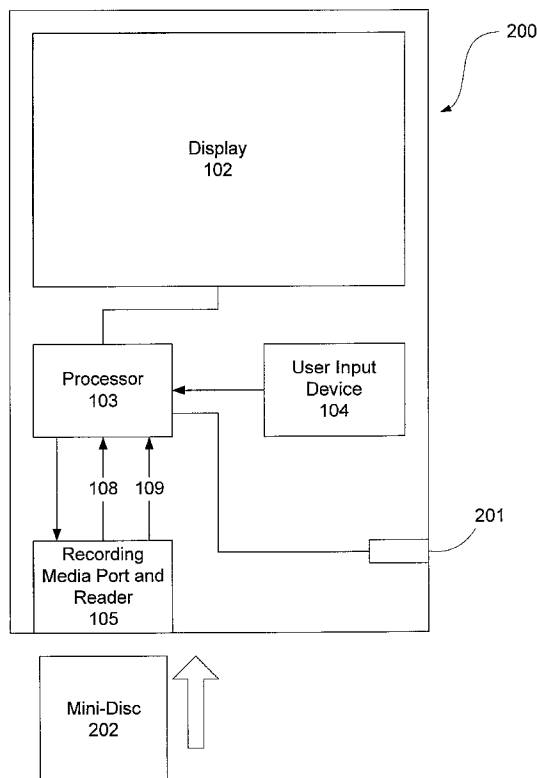
*Assistant Examiner*—Ali Zamani

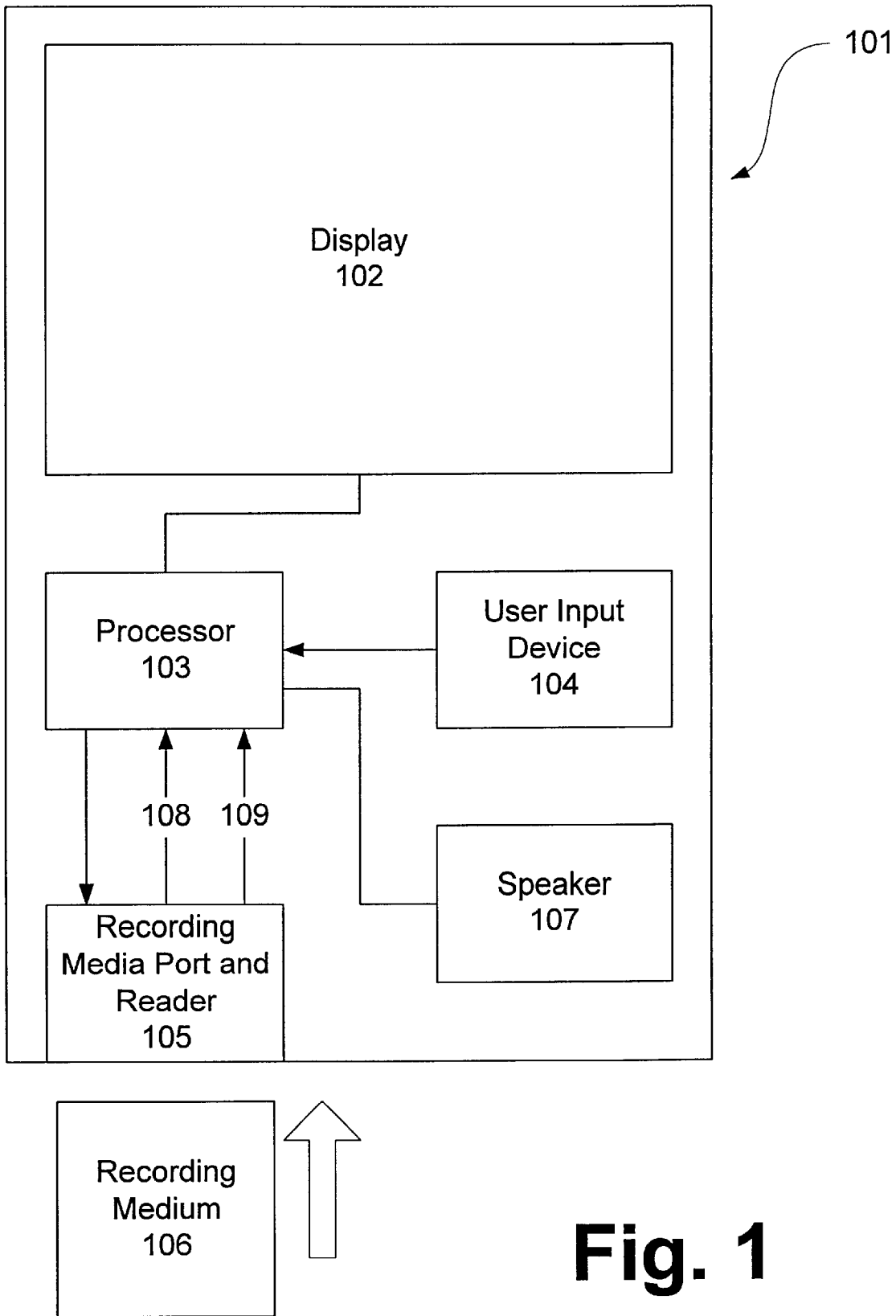
**(74) Attorney, Agent, or Firm**—Radar, Fishman & Grauer PLLC; Ronald P. Kananen, Esq.

**(57) ABSTRACT**

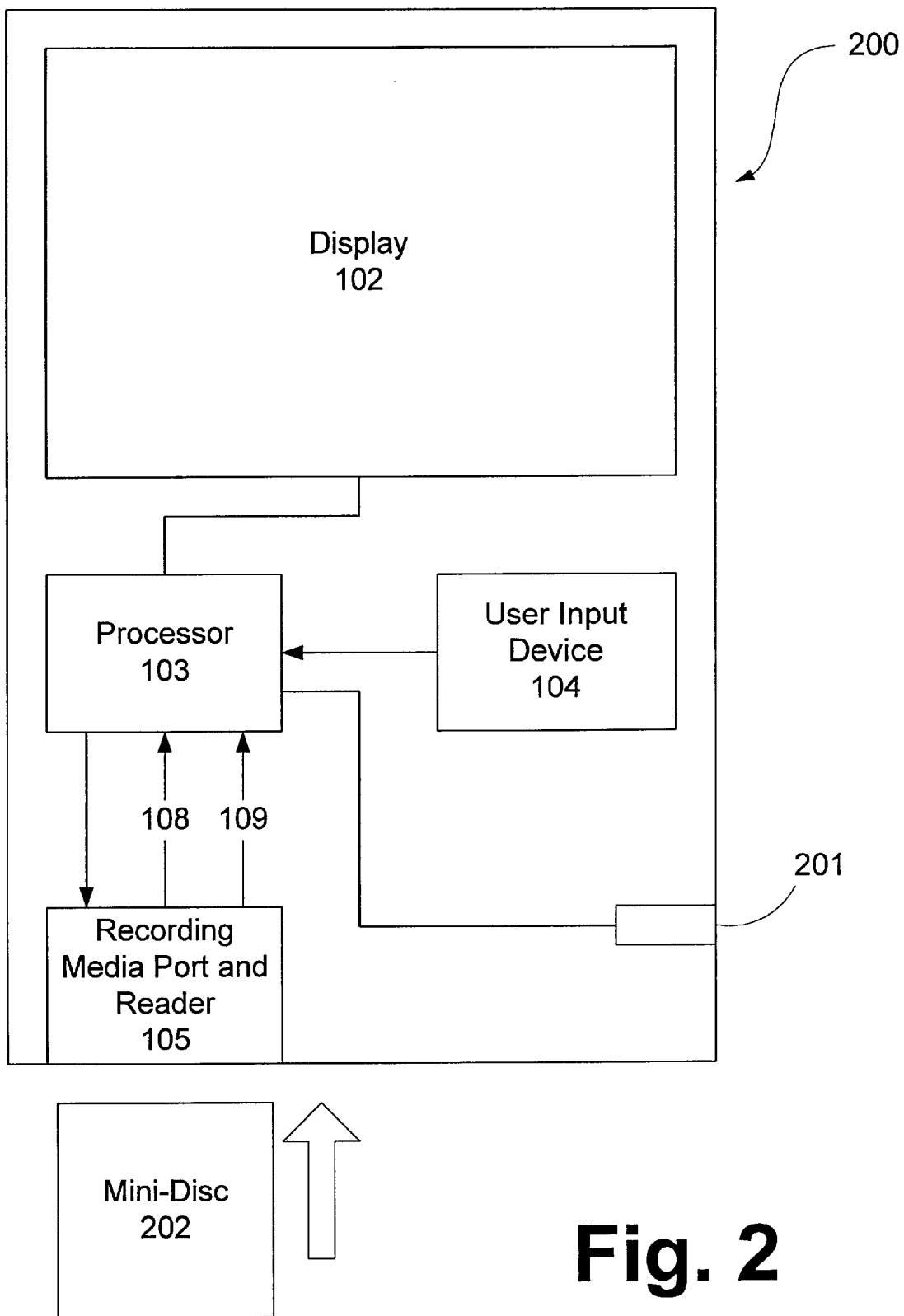
An audio system for playing recordings of audio programming includes a relatively large display device on which contextual information about the audio programming may be displayed. The contextual information is recorded on the same recording medium as the audio programming and may include any textual information or graphic images related to the audio programming or the artists who produced it. Preferably, the audio system is a personal, portable audio system which is battery-operated and which reads mini-discs.

**15 Claims, 4 Drawing Sheets**

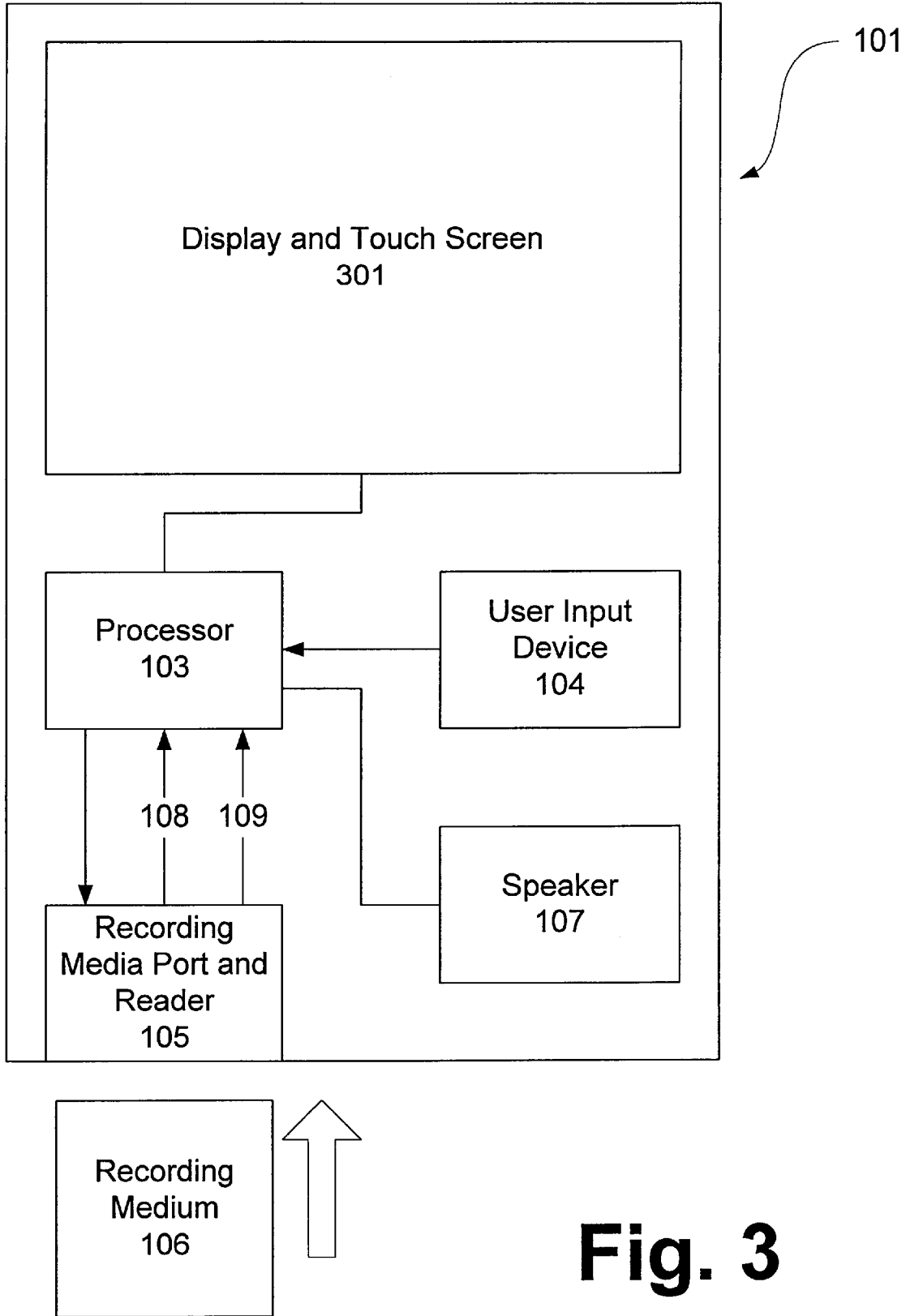




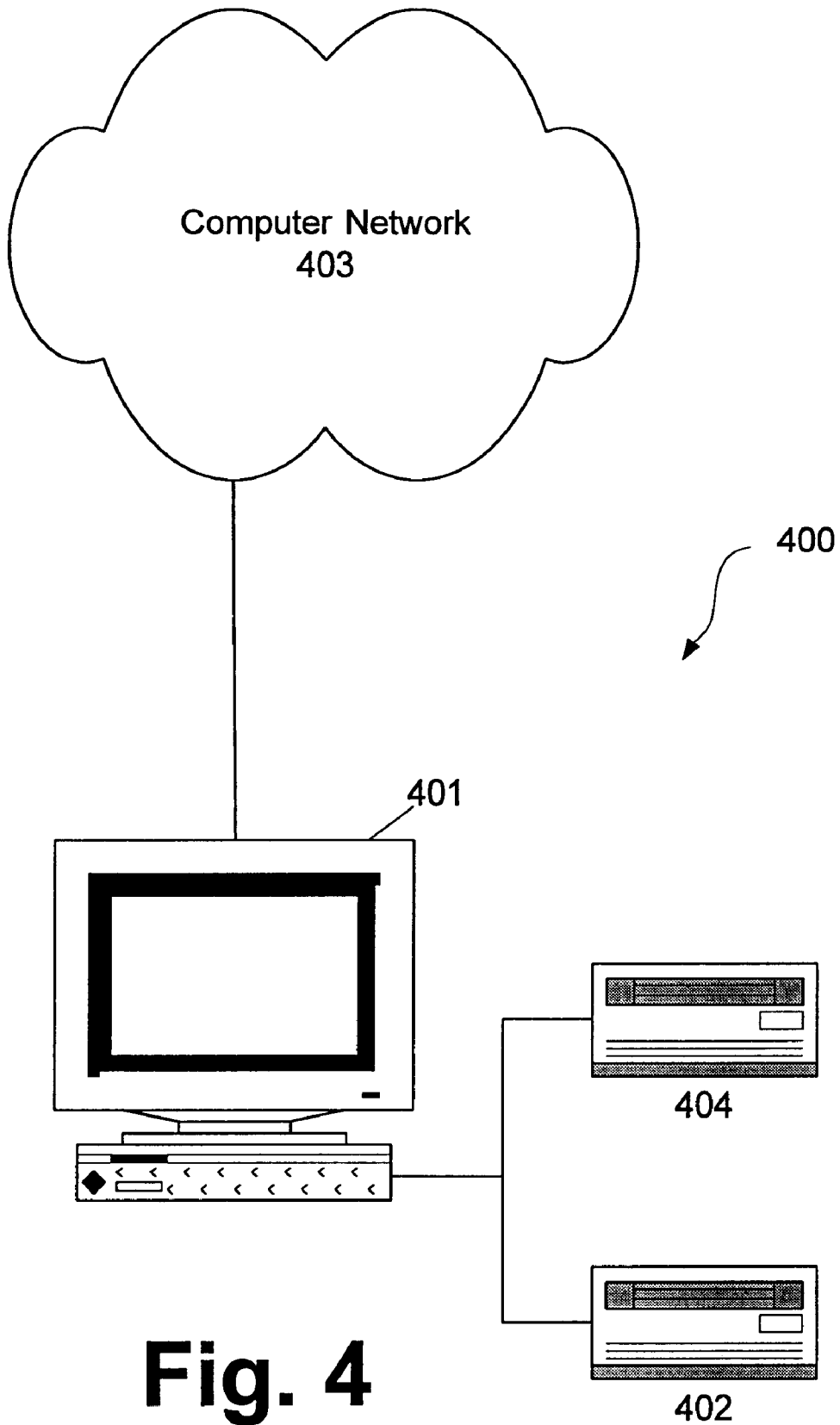
**Fig. 1**



**Fig. 2**



**Fig. 3**



**Fig. 4**

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