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

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(54) **BACKLIT LCD MONITOR**

(58) **Field of Search** ..... 345/102, 87, 77,  
345/589-605, 101

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(73) **Assignee:** **General Digital Corporation**, South Windsor, CT (US)

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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 139 days.

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(21) **Appl. No.:** **10/080,983**

(57) **ABSTRACT**

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An exemplary embodiment of the invention is a backlit liquid crystal display (LCD) monitor comprising a backlight assembly, a cooling assembly, a rear cover assembly and a controller. The controller monitors temperature and controls cooling accordingly. The controller also monitors bulb luminance and adjusts bulb current accordingly. Faults are monitored and logged so that predictive repair before failure analysis may be performed.

(65) **Prior Publication Data**

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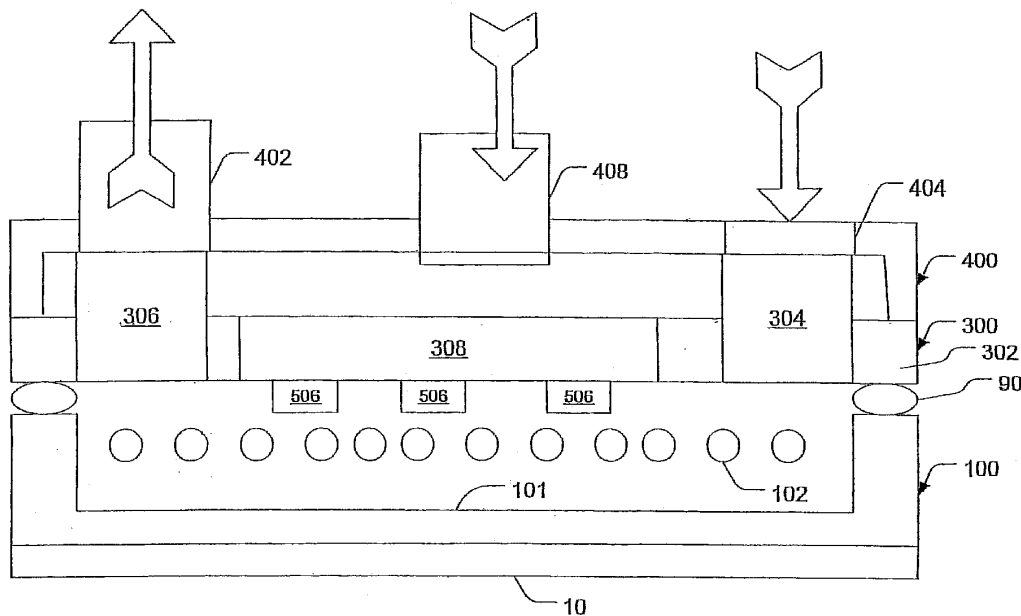
**Related U.S. Application Data**

(60) Provisional application No. 60/270,848, filed on Feb. 23, 2001.

(51) **Int. Cl.<sup>7</sup>** ..... **G09G 3/36**

(52) **U.S. Cl.** ..... **345/101; 345/102**

**13 Claims, 16 Drawing Sheets**



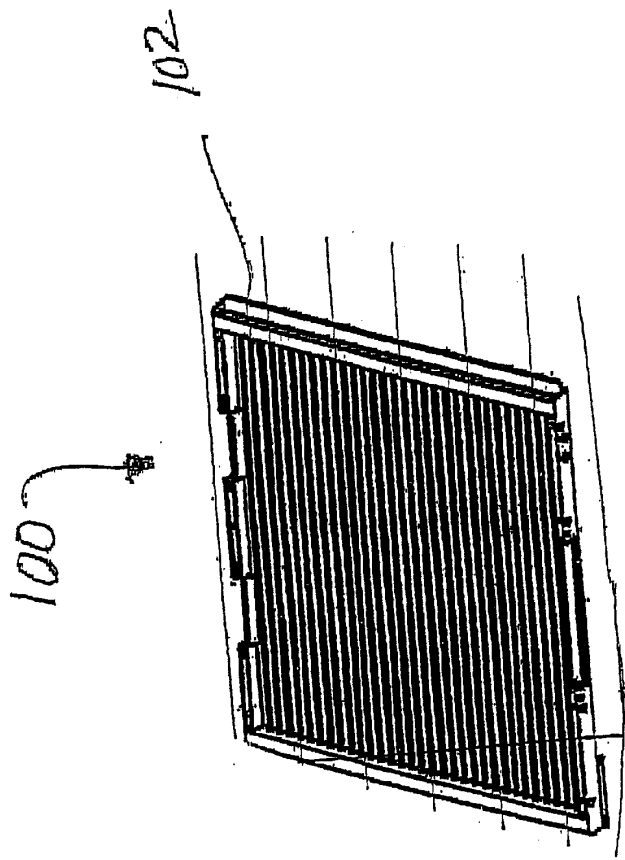


FIG. 1

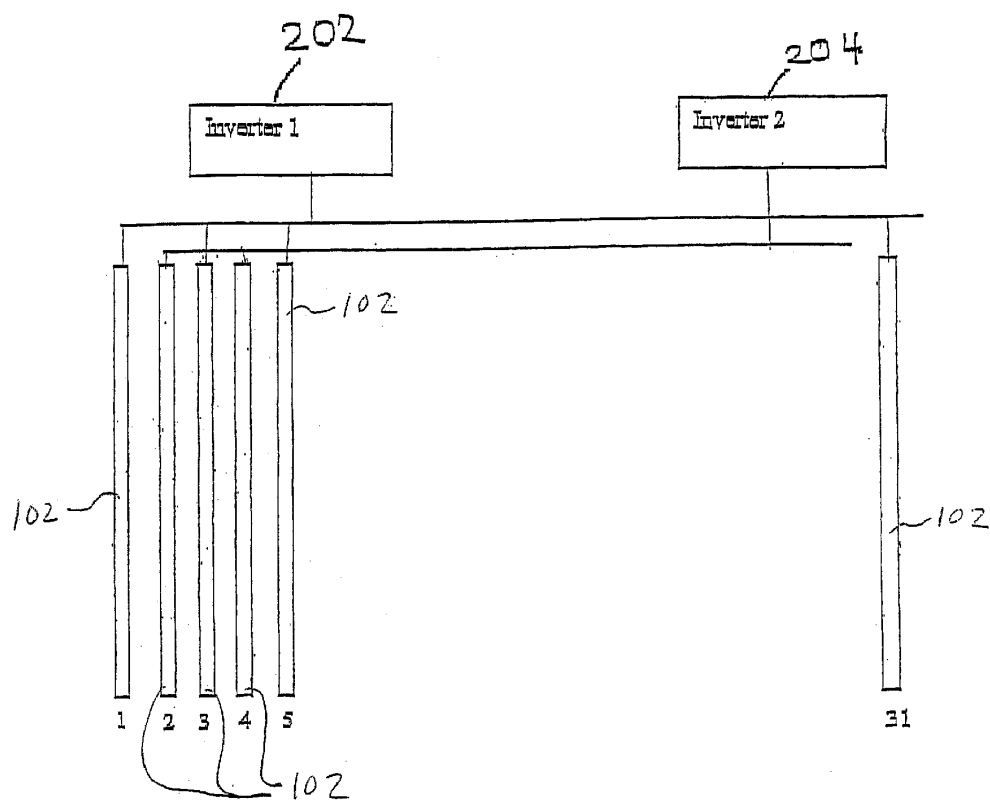


FIG. 2

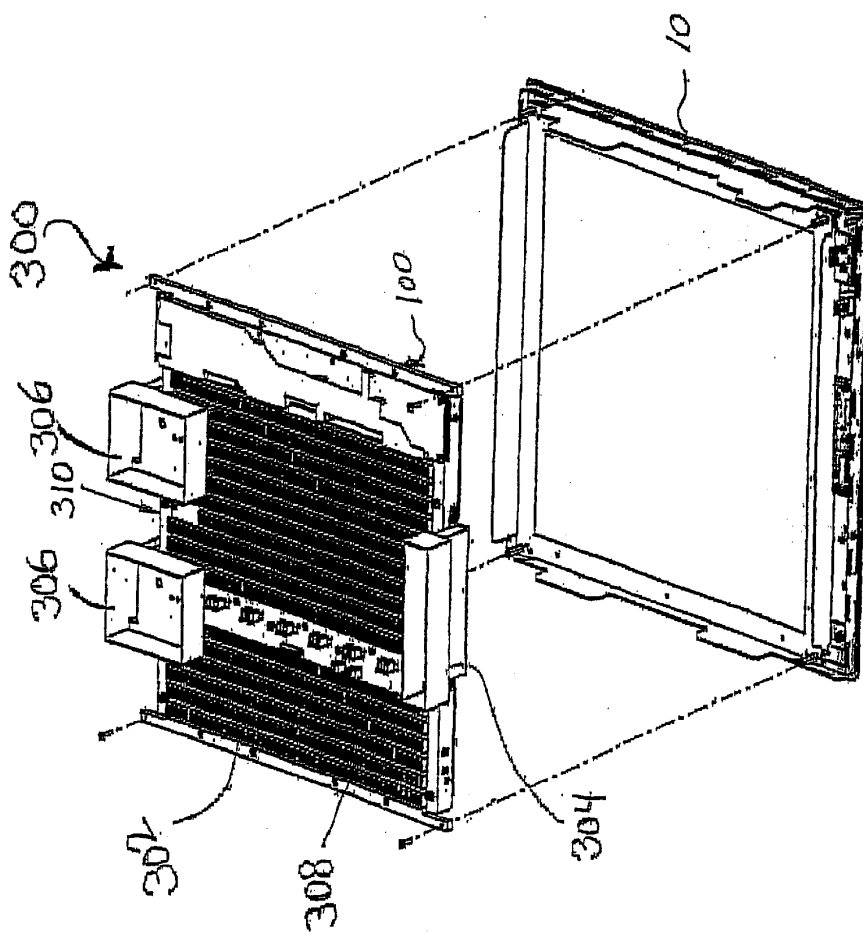


FIG. 3

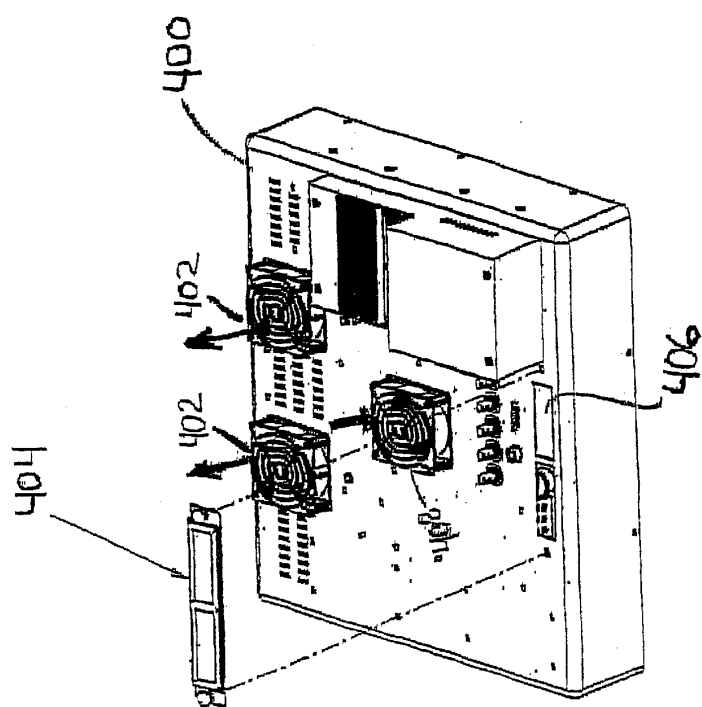


FIG. 4A

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