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(54) **LIGHT SOURCE INTENSITY CONTROL SYSTEM AND METHOD**

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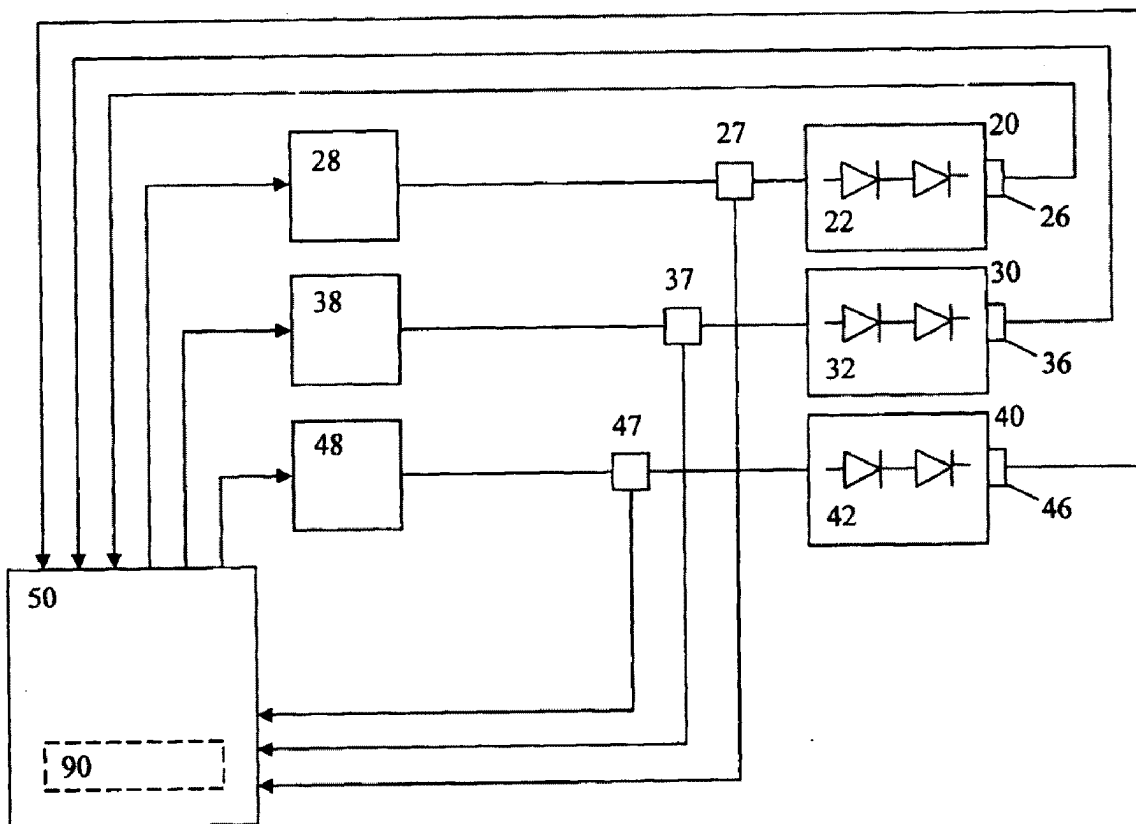
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(57) **ABSTRACT**

The light source comprises one or more first light-emitting elements for generating light having a first wavelength range and one or more second light-emitting elements for generating light having a second wavelength range. The first light-emitting elements and second light-emitting elements are responsive to separate control signals provided thereto. A control system receives a signal representative of the operating temperature from one or more sensing devices and determines first and second control signals based on the desired colour of light and the operating temperature. The light emitted by the first and second light-emitting elements as a result of the received first and second control signals can be blended to substantially obtain the desired colour of light. The desired colour of light generated can thus be substantially independent of junction temperature induced changes in the operating characteristics of the light-emitting elements.



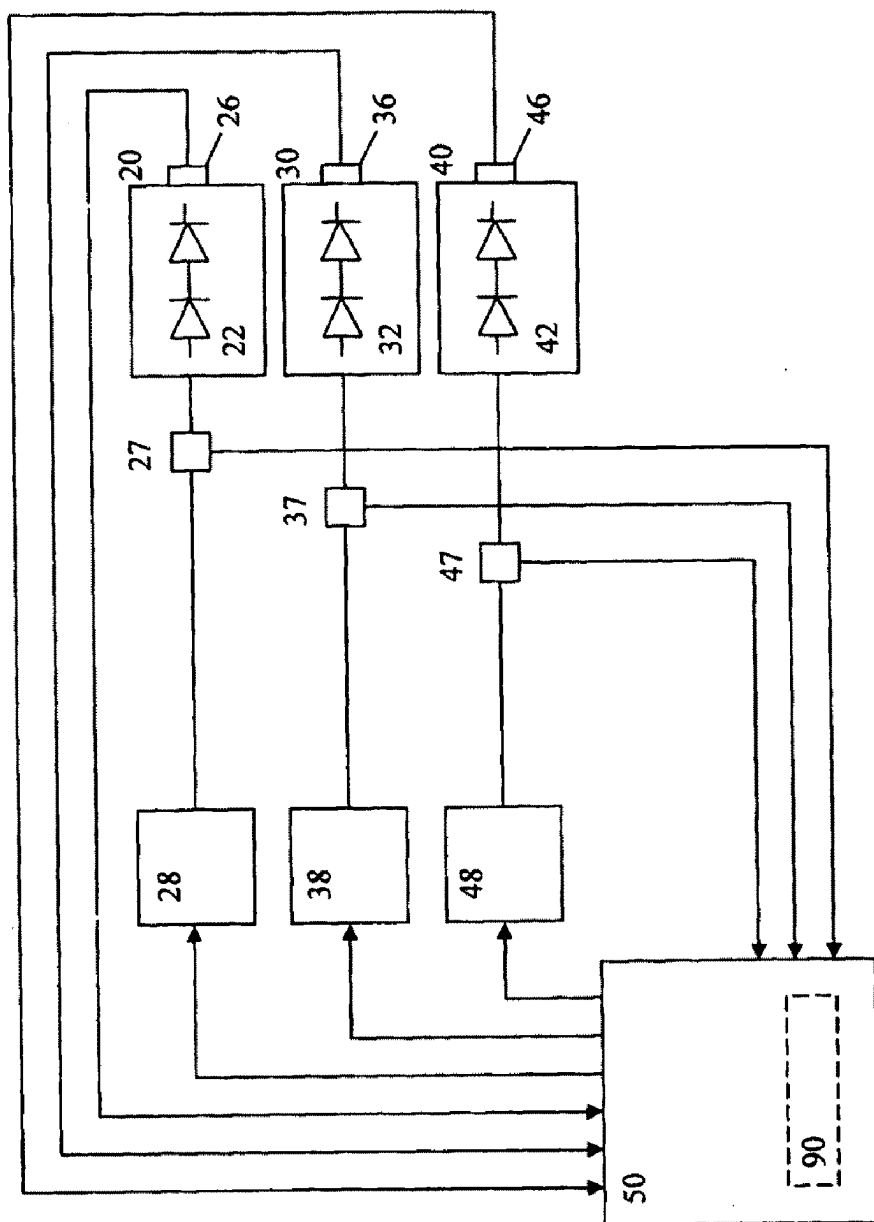


FIGURE 1

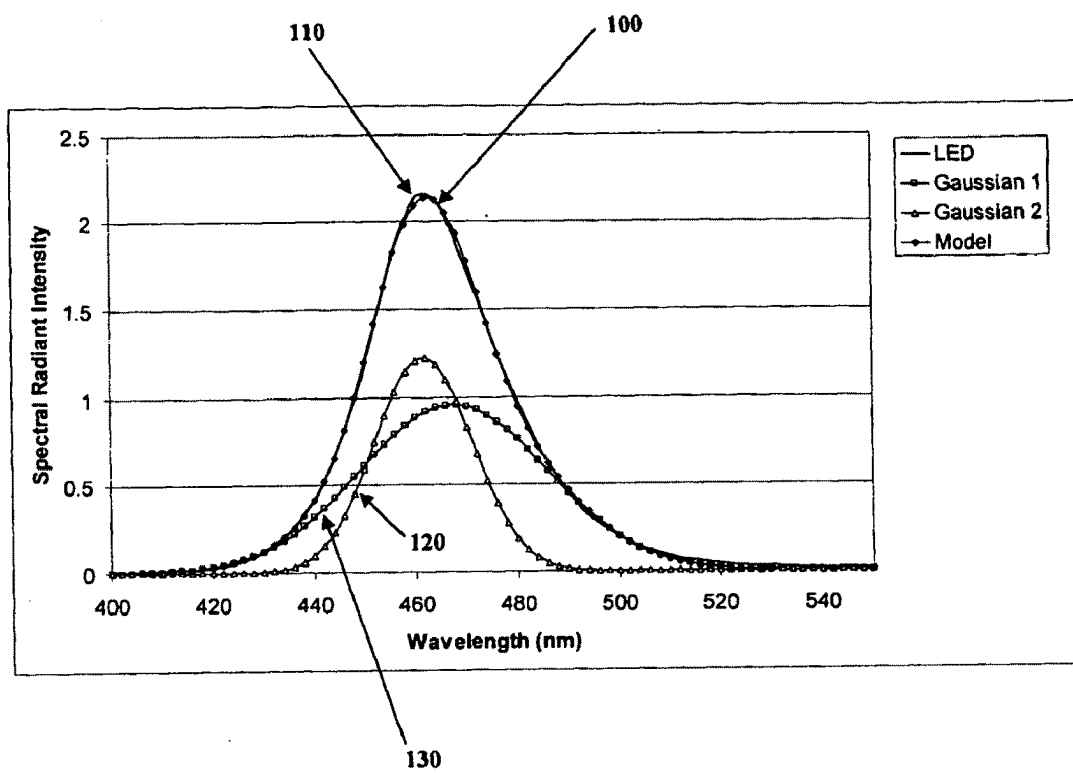


FIGURE 2

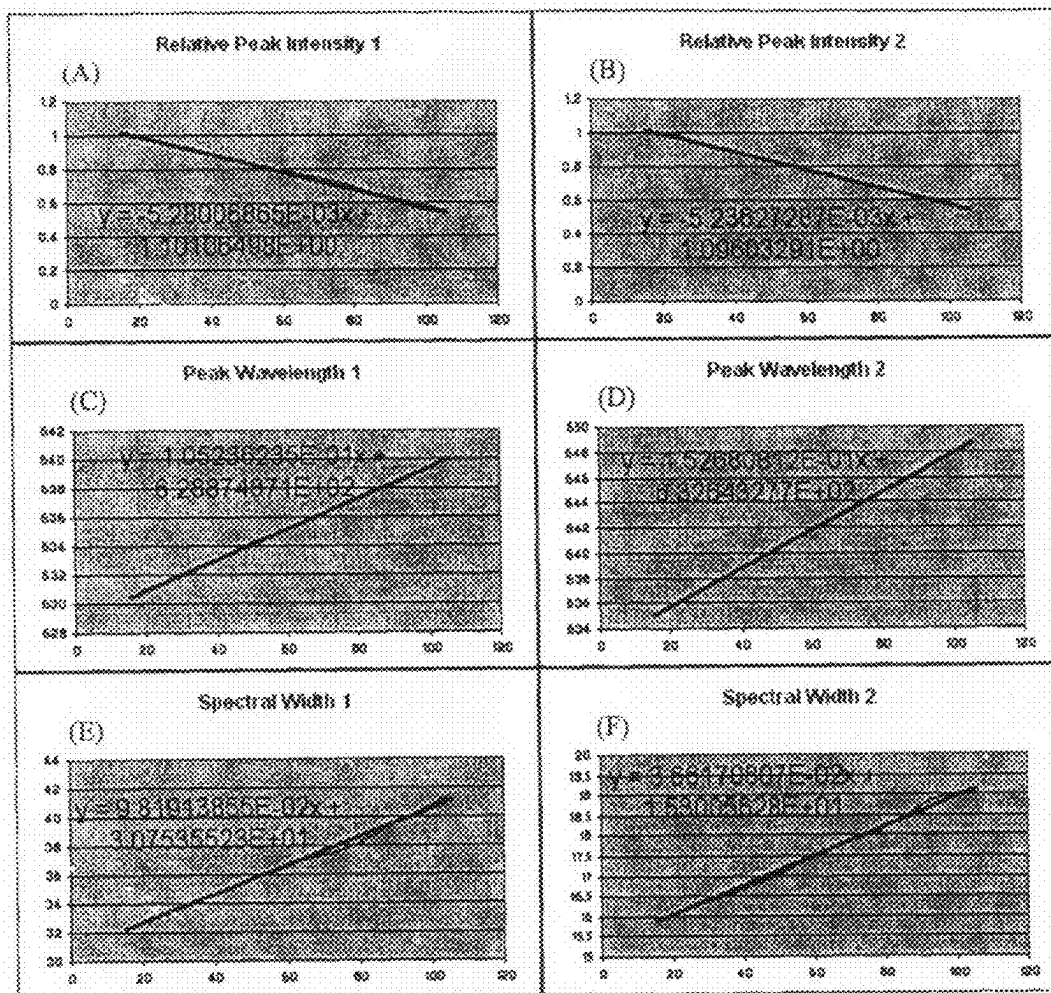


FIGURE 3

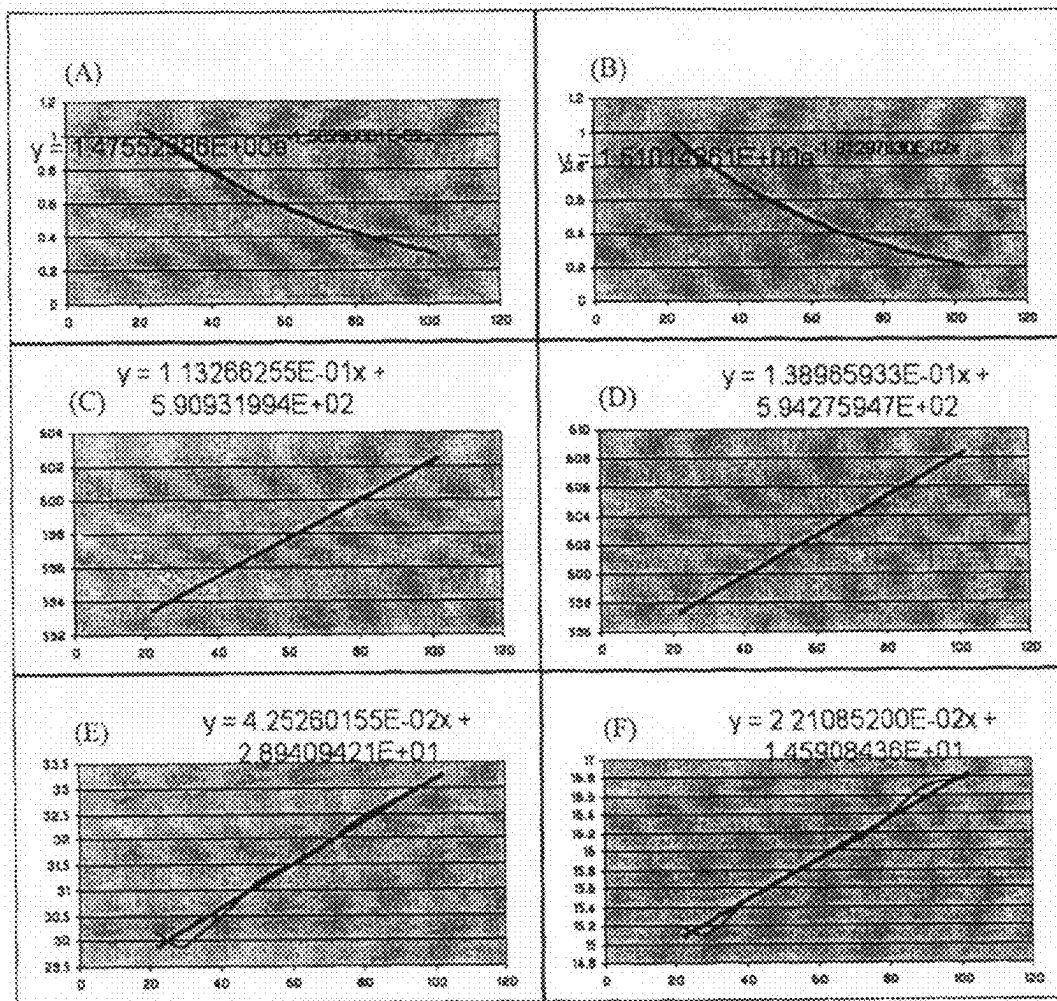


FIGURE 4

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