

### **Abstract of Disclosure**

#### **FREQUENCY FEEDFORWARD FOR CONSTANT LIGHT OUTPUT IN BACKLIGHT INVERTERS**

**[0048]** In a method and system for an improved inverter providing power to a load, the inverter receives a direct current (DC) input. A plurality of switches included in the inverter are controlled by a plurality of control signals to generate an alternating current (AC) output in response to the DC input. A zero crossing of the AC output current provided by the plurality of switches is detected, and the controlling of the plurality of switches is delayed in response to the zero crossing. The amount of delay is adjusted responsive to a change in the DC input to effectively maintain a constant switching frequency of the inverter. The delayed AC output current of the plurality of switches is filtered to provide power to the load.

Fig. 2



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