Fridge Watcher

Ron Klein of **Walgett NSW** sent us this article. It's a cunning adaptation of a standard op-amp circuit, and is used to monitor the operation of a kerosine refrigerator.

The core of the circuit is a Cadmium Sulphide cell which has a sharply defined sensitivity to radiation of about 5700 Angstroms i.e: yellow light.

The CdS cell is aimed at the kerosine flame of the 'fridge, via a suitable piece of tubing. When the 'fridge is operating normally, this flame will have a strong yellow colour. However, if it either flares up, or drops low, the colour changes, and with it the resistance of the CdS cell. This change of resistance is detected by the op-amp, and the buzzer triggered via the BC557.