Modified light chaser gives Cylon eye display

This circuit is a suggested modification to the "LED Head" Lightchaser of January 1983. It gives a simulated Cylon eye display, similar to that seen in the popular TV series. The LEDs chase alternately left, then right, then left again, etc.

A dual D-type flipflop, IC3, toggles at the end of each sweep with a clock pulse from the unused fifth output of IC2. When IC3's Q output (pin 1) is high the b and d AND gates of IC4 and IC5 are enabled, allowing the display to shift backwards. A high at the Q-bar output (pin 2) causes the display to shift forward via the a and c gates of IC4 and IC5.

The extra current drain from the three new CMOS chips should not be significant. Resistor and/or capacitor substitution in the oscillator will be necessary to give the desired sweep speed.

The LEDs could be glued into wraparound sunglasses, like the Boggle Goggles, or into a Cylon mask and teamed with the Cylon voice from the December 1980 project.

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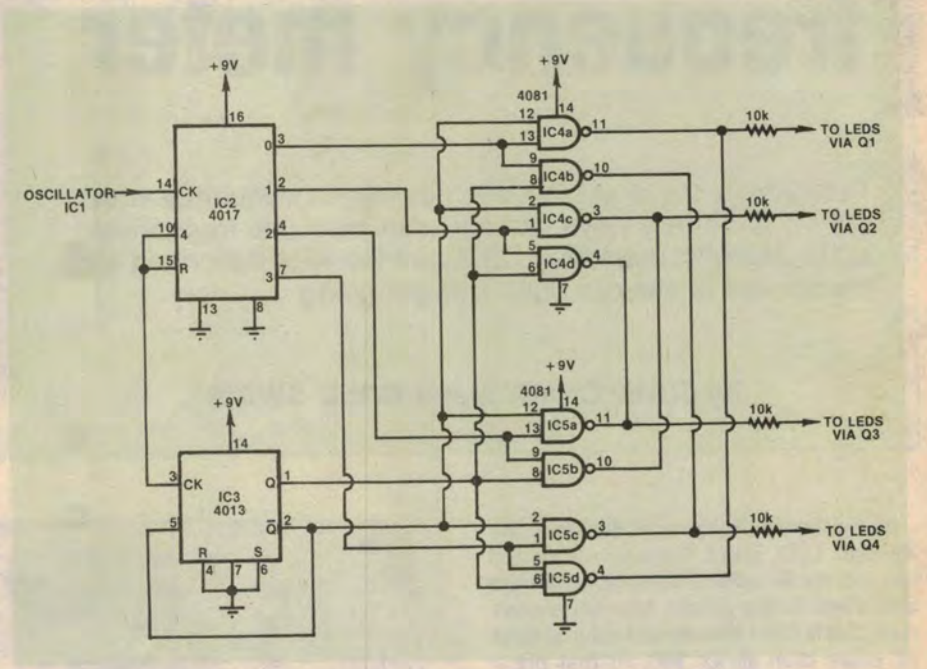

This circuit replaces the 4017 IC in the January 1983 project.