

ABSTRACTCLOCK RECOVERY

5 A system for recovering a clock from an optically
encoded signal uses a mode-locked laser 4. A modulator 2
is connected in common with the laser cavity 3 of the laser
and with a transmission path 1 which applies the input
optically encoded signal to the modulator 2. The modulator
10 2 in response to the optically encoded signal modulates the
phase and/or amplitude of light in the laser cavity 3
thereby locking the phase and frequency of an output pulse
stream to the timing wave of the optically encoded signal.

 In a preferred example, the modulator is a non-linear
15 optical modulator used for cross-phase modulation (XPM) of
the light in the laser cavity.