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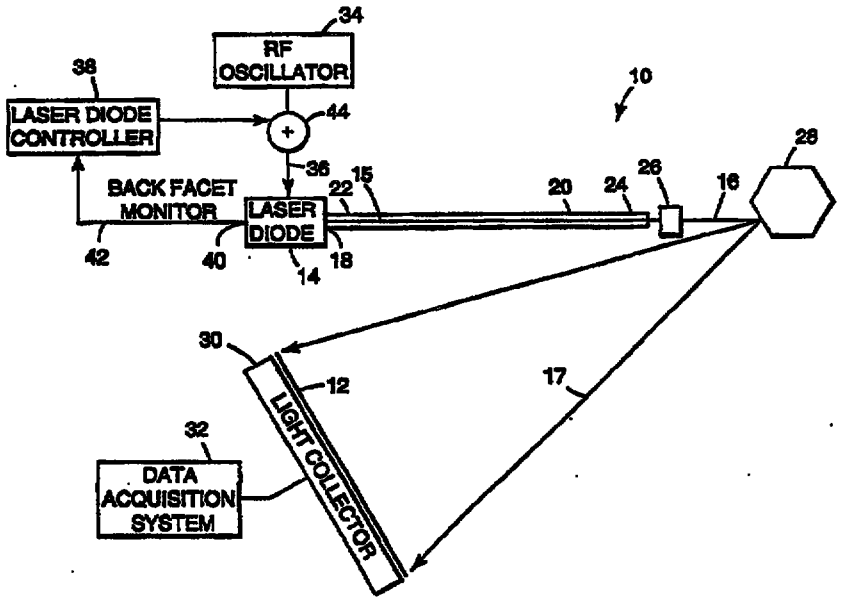
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(54) Title: FILM IMAGE DIGITIZER USING OPTICAL FIBER-COUPLED LASER DIODE



(57) Abstract

A film image digitizer comprises a laser diode (14) for emitting a laser beam (15), an optical fiber (20), coupled to the laser diode (14), for transmitting the laser beam (15), a scanning mechanism for receiving the laser beam from the optical fiber (20) and scanning the laser beam across the sheet of film (12), and a light collection device (30) for detecting light transmitted through the sheet of film (12) in response to the scanning of the laser beam (15) across the sheet of film (12). A radio frequency oscillator (34) can be provided to modulate the laser diode (14) at radio frequencies to increase a spectral width of the laser beam emitted by said laser diode (14). The increased spectral width reduces interference generated by multiple reflections of the laser beam (15) within the sheet of film (12).