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(54) Title: ELECTRONIC RECORDING CAMERA WITH OPTIMIZED POWER CONSUMPTION

(57) Abstract

A video camera recorder (1000) comprises an imaging means (205, 200) for receiving an optical image and generating an image representative video signal (Iv) and a viewfinder (5000) for viewing the optical image. A synchronizing signal generating means (3000) is coupled to the imaging means (205, 200). A recording means (500) is coupled to the synchronizing signal generating means (3000) and to the imaging means (205, 200). A control means (4000) for optimizing power conservation has a first mode of operation in which the control means (4000) enables operation of the synchronizing signal generating means (3000) and inhibits operation of the imaging means (205, 200) and the recording means (500). In a second mode of operation, the control means (4000) enables operation of the synchronizing signal generating means (3000) and the recording means (500) for reproducing a recorded image representative video signal (Pbv) and inhibits operation of the imaging means. In a third mode of operation, the control means (4000) enables operation of the imaging means (205, 200), the synchronizing signal generating means (3000) and the recording means (500) for recording the image representative video signal (Iv) from the imaging means (205, 200). The power dissipation of various other systems, for example, an electronic viewfinder (50) or servo system, is controlled responsive to the selected operating mode, video signal presence or absence, and the detection of external coupling.

