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**Creamer et al.**

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(54) **INTEGRATED INTERNET/INTRANET CAMERA**

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(73) Assignee: **PENTAX of America, Inc.**, Montvale, NJ (US)

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **09/204,289**

3.3 Connectionless Transport: UDP, Ross and Kurose; http://www-net.cs.umass.edu/kurose/transport/UDP.html; 1996-2000.\*

(22) Filed: **Dec. 3, 1998**

(Continued)

**Related U.S. Application Data**

(60) Provisional application No. 60/085,585, filed on May 15, 1998, and provisional application No. 60/067,310, filed on Dec. 4, 1997.

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(51) Int. Cl.<sup>7</sup> ..... **H04N 5/232**; H04N 5/225;  
H04N 11/00

(74) *Attorney, Agent, or Firm*—Greenblum & Bernstein, P.L.C.

(52) U.S. Cl. .... **348/211.3**; 348/207.1;  
348/552

(57) **ABSTRACT**

(58) **Field of Search** ..... 348/207.1, 211.3,  
348/211.1, 211.8, 211.12, 552, 231.2, 231.6,  
14.01-14.16, 36, 211.6, 154, 155, 158;  
358/403; 704/203

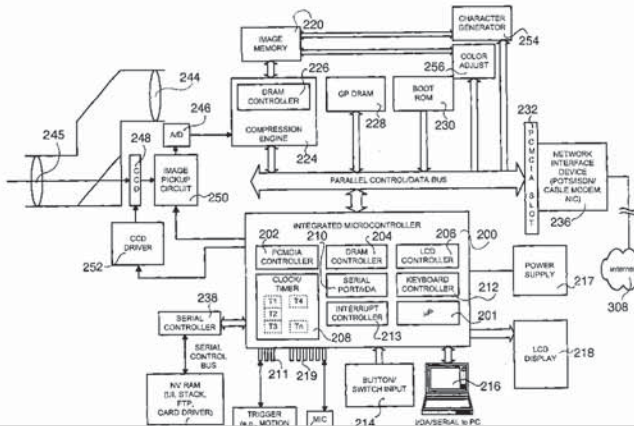
An integrated Internet camera includes, as embedded components contained within the camera body and controlled by a microcontroller, at least a network interface device for connecting to the Internet, a transport control device for packetizing according to Internet protocols, a file transfer device for communicating with a destination user directory on the Internet, and a transmission initiating device for initiating the connection and transfer operations of the file transfer device and transport control device. The network interface device may be a modem, network adapter, or adapter for connection to the Internet. Upon capturing the digital image, the camera initiates a connection to the Internet, connects to the destination user directory, and uploads the digital images. Thereafter, the digital images are available to authorized (or any) user having access to the Internet.

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**91 Claims, 22 Drawing Sheets**



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FIG. 1  
PRIOR ART

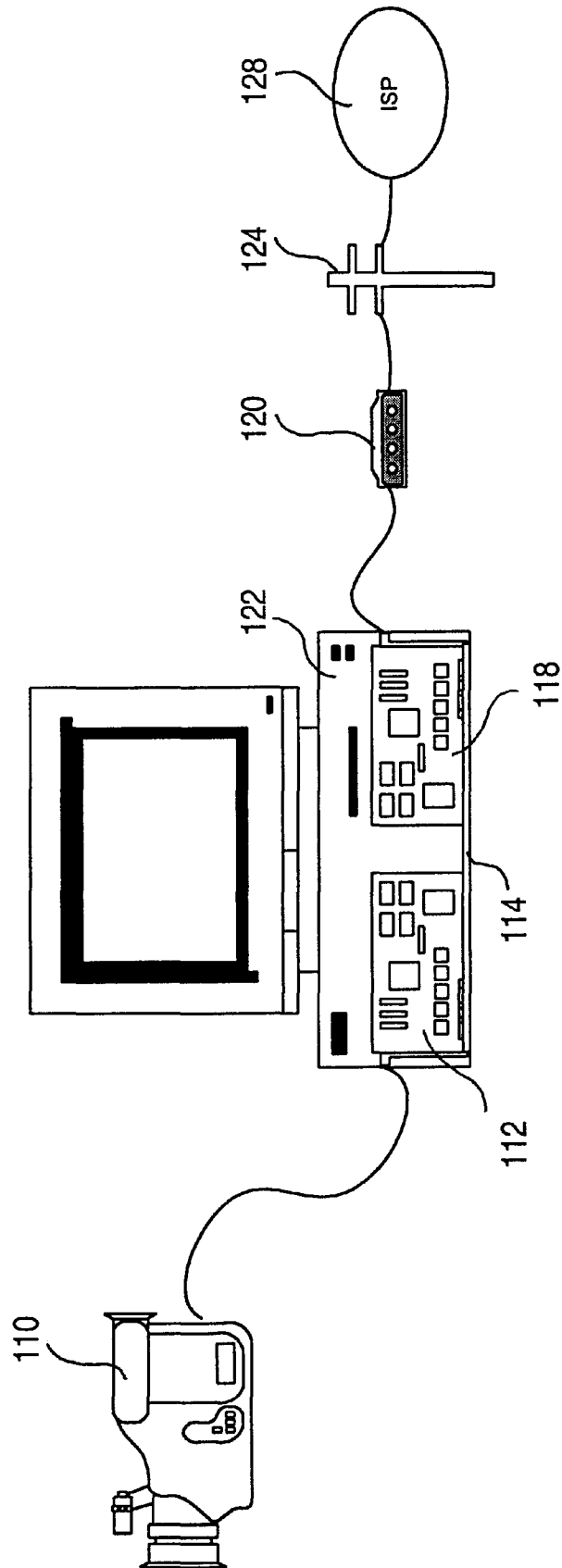


FIG. 2

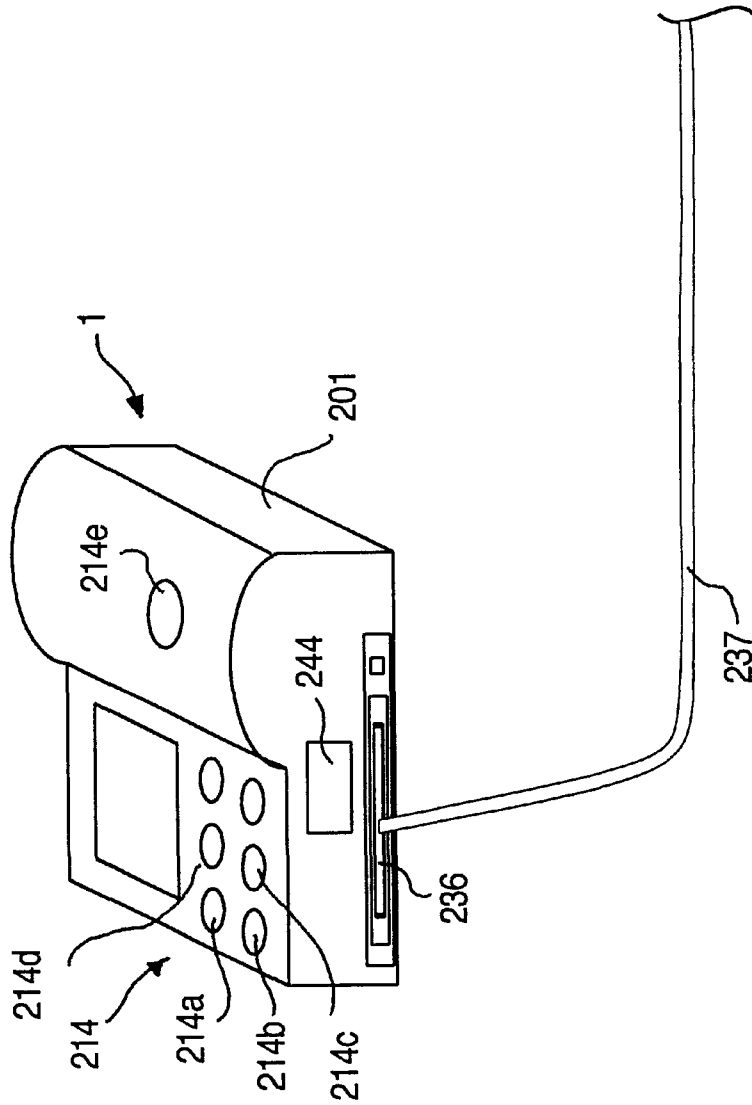
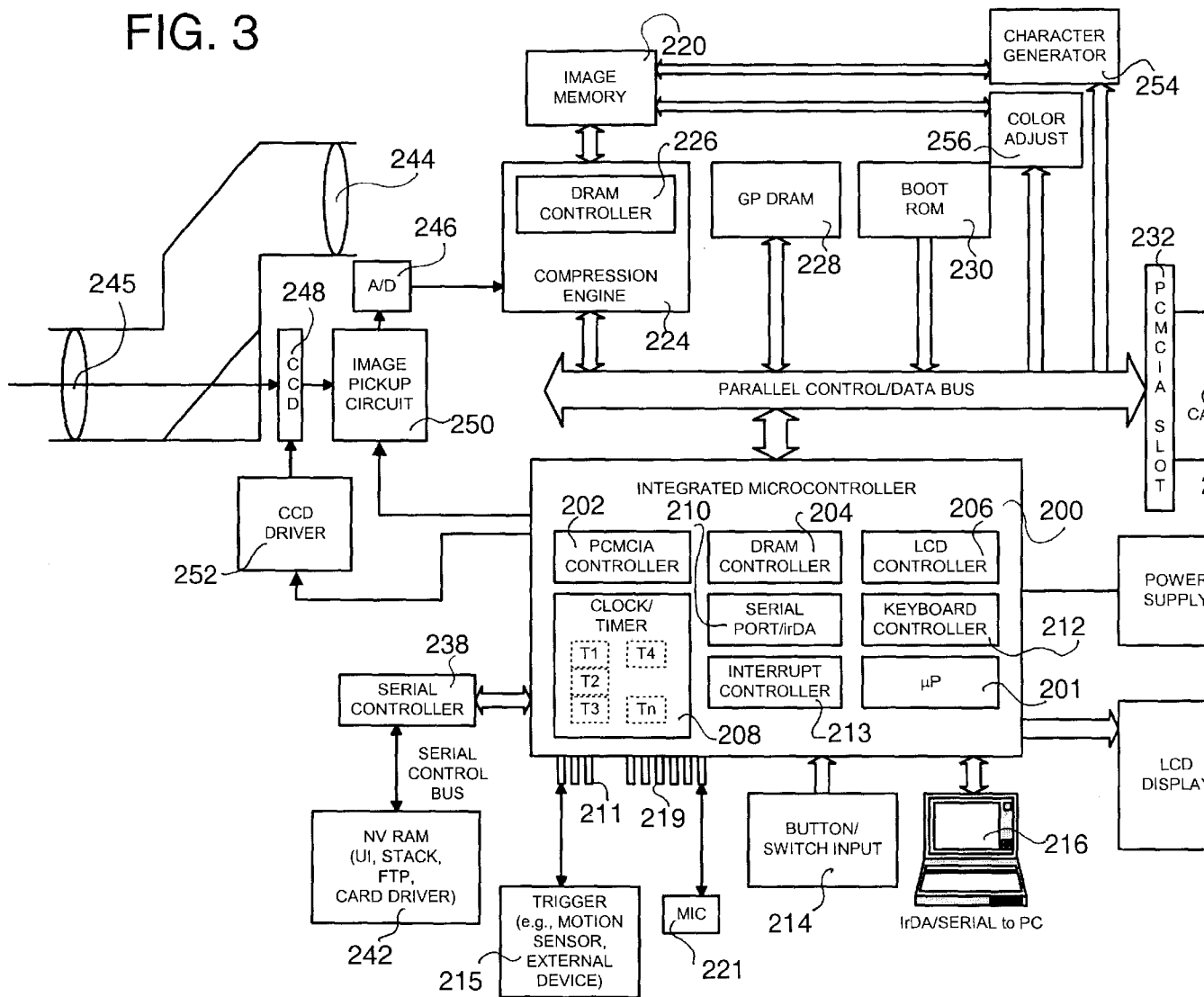


FIG. 3



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