



United States Patent [19]
Sarbadhikari et al.

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[45] Date of Patent: Dec. 19, 1995

[54] ELECTRONIC IMAGING SYSTEM USING A REMOVABLE SOFTWARE-ENHANCED STORAGE DEVICE

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5,155,513 10/1992 Matsumura et al. 354/106
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[75] Inventors: Kamal K. Sarbadhikari, Penfield; John R. Fredlund; Kenneth A. Parulski, both of Rochester, all of N.Y.

OTHER PUBLICATIONS

USSN 988,517 filed Dec. 10, 1992, Entitled "Electronic Camera with Memory Card Interface to a Computer", Kenneth A. Parulski et al.

[73] Assignee: Eastman Kodak Company, Rochester, N.Y.

USSN 085,519 filed Jun. 30, 1993, Entitled "Apparatus and Method for Adaptively Interpolating a Full Color Image Utilizing Chrominance Gradients", Claude A. Laroche et al. Personal Computer Memory Card International Association (PCMCIA) "PC Card Standard", Release 2.0, Sep. 1991.

[21] Appl. No.: 219,608

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Assistant Examiner—Sherrie Hsia
Attorney, Agent, or Firm—David M. Woods

[22] Filed: Mar. 29, 1994

[51] Int. Cl.⁶ H04N 5/76
[52] U.S. Cl. 348/231; 348/233; 348/552
[58] Field of Search 348/222, 231, 348/232, 233, 552; 358/909.1, 906; 258/903, 909; H04N 5/76; 5/907, 5/92

[57] ABSTRACT

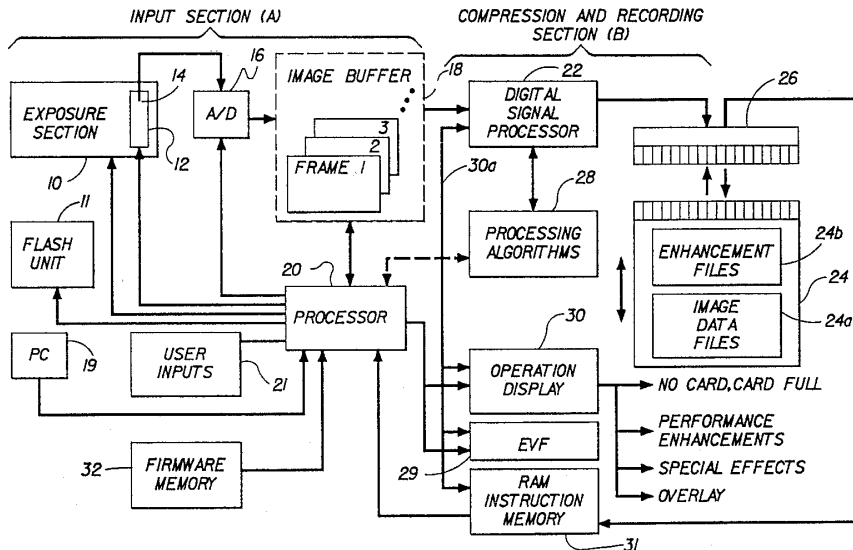
An electronic imaging system includes a digital electronic camera for capturing and storing images in a removable storage device, which is also preloaded with enhancement files for effecting the operation of the system. The camera includes an optical section for establishing the optical parameters of image capture, an image sensing section for electrically capturing the image, and a signal processing section for operating upon the electrically captured image prior to storage. The several sections of the camera are coordinated and controlled by a programmable processor, which is capable of receiving the enhancement files preloaded into the storage device. These files may contain software for updating the operating code of the camera, for modifying the electrically captured image in selected ways, for modifying camera in special situations, or for communicating non-captured image-like data, such as text and image overlays, to the camera.

[56] References Cited

U.S. PATENT DOCUMENTS

Table with 4 columns: Patent Number, Date, Inventor, and Reference Number. Includes entries for Tanikawa, Konishi, Inoue et al., Watanabe et al., Ishikawa et al., Azuma et al., Sasson et al., Sasaki et al., Lorton et al., Fujimori, Taniguchi et al., Inoue et al., Naka et al., Arifuku et al., Roberts, and Taniguchi et al.

47 Claims, 11 Drawing Sheets



Sony, Ex. 1018, p.1

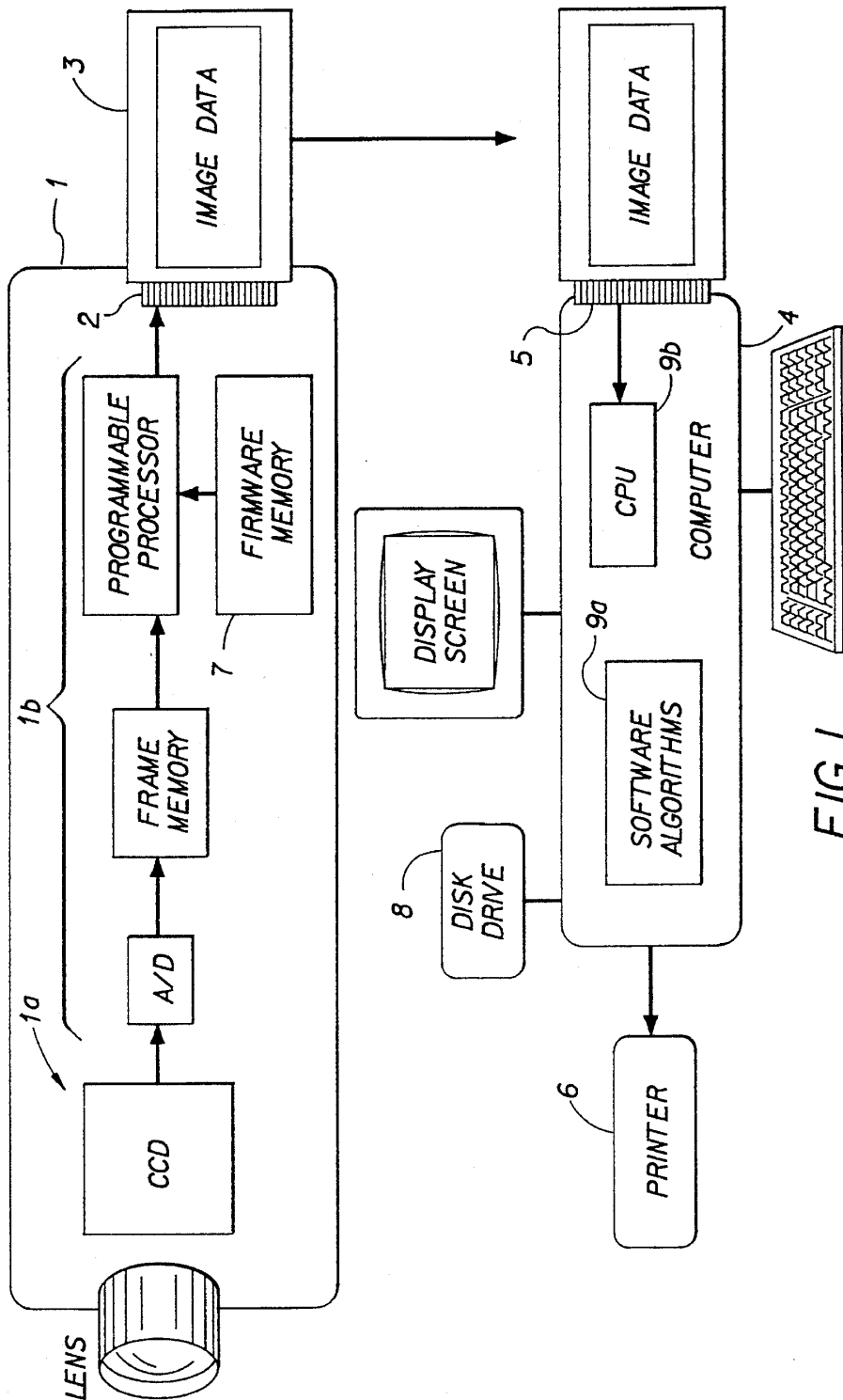


FIG. 1
(PRIOR ART)

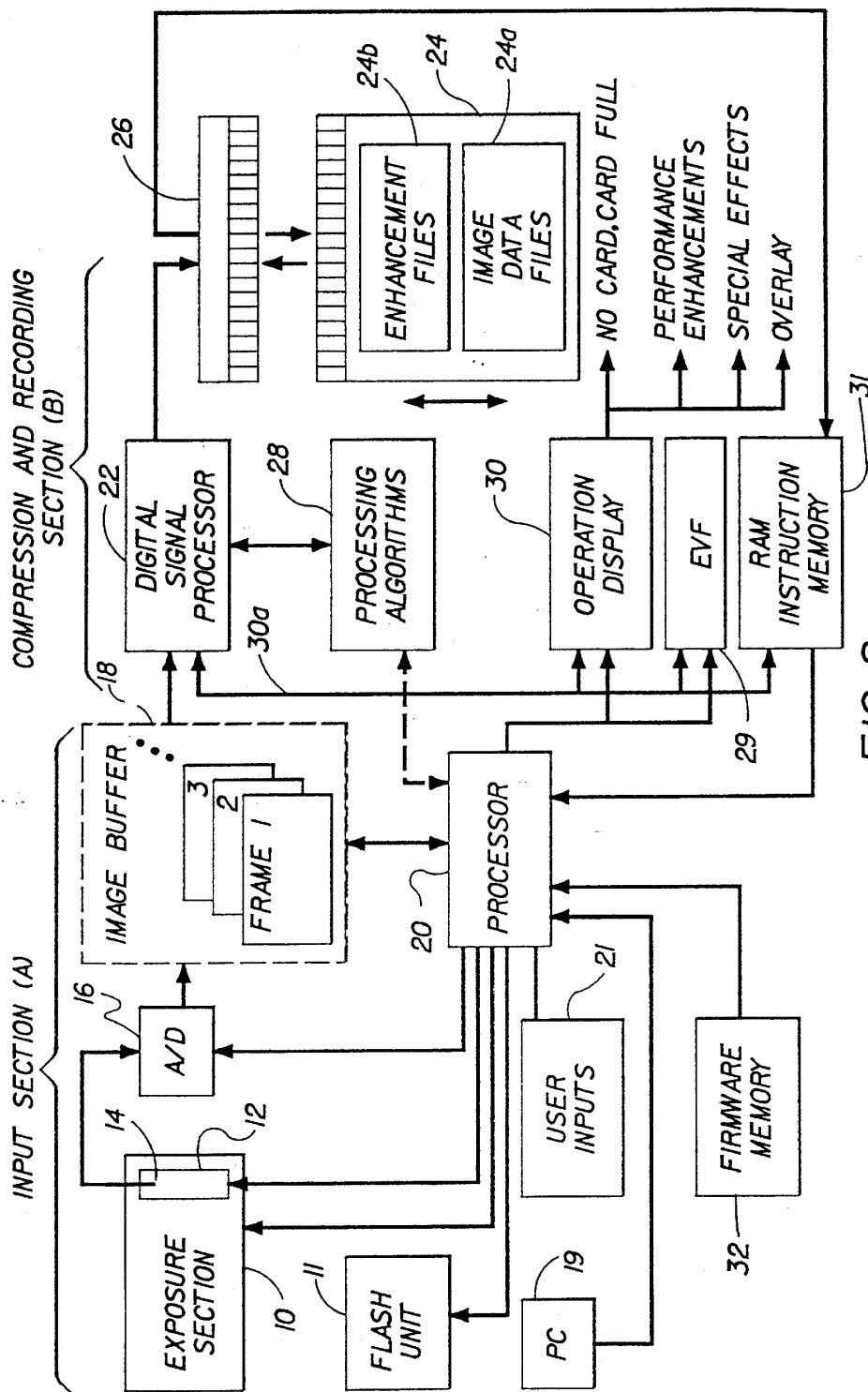


FIG. 2

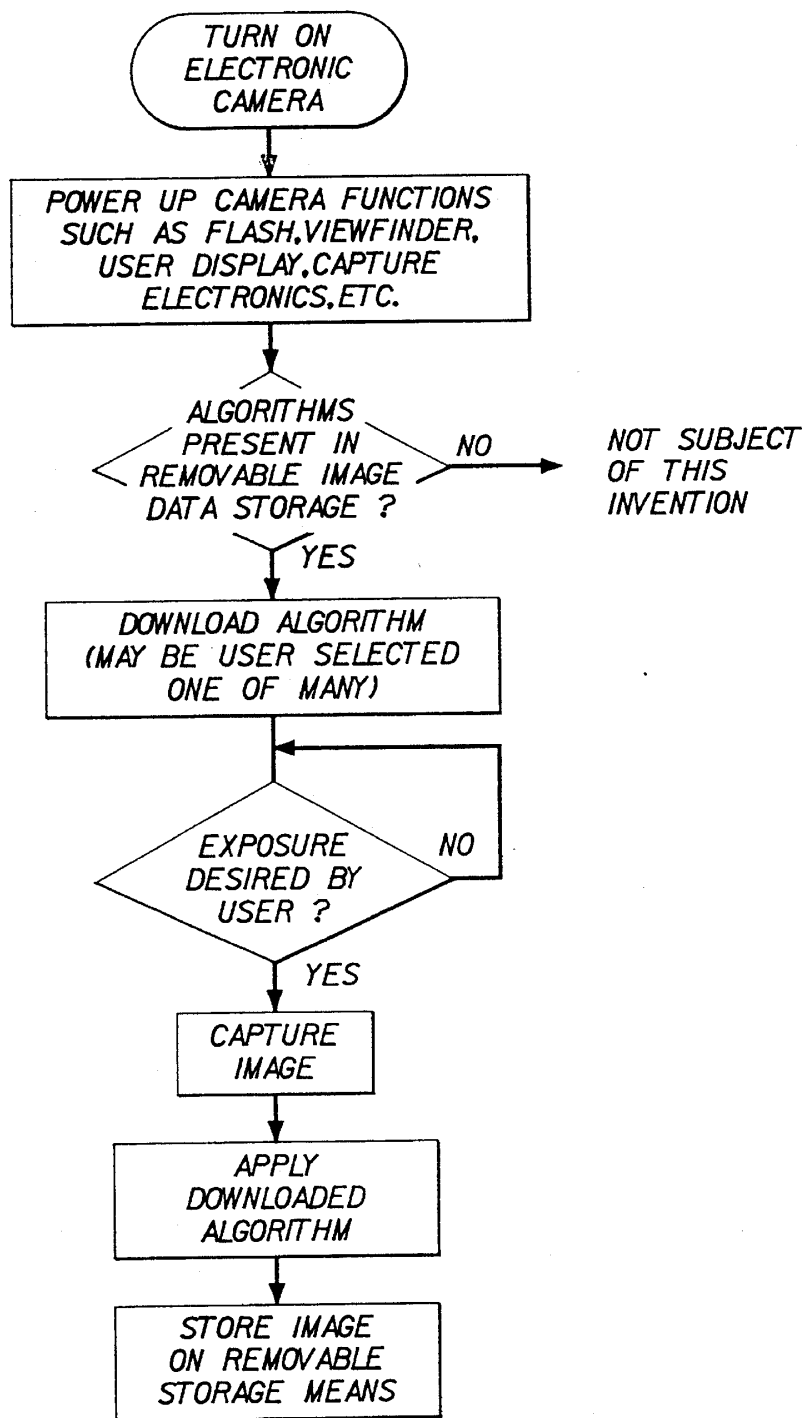


FIG. 3

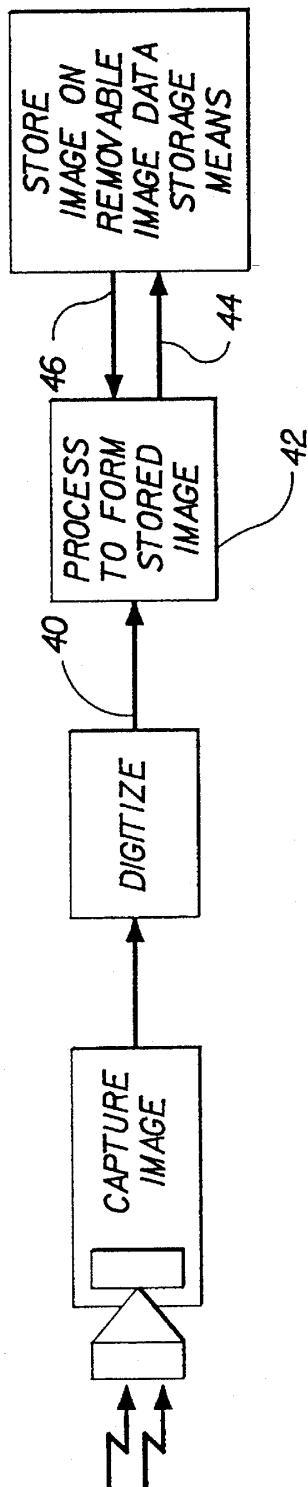


FIG. 4

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