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Maurinus et al.

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[54] INTERACTIVE CAMERA FOR NETWORK PROCESSING OF CAPTURED IMAGES

[75] Inventors: **Martin A. Maurinus**, Rochester;
Wilbert F. Janson, Jr., Shortsville,
both of N.Y.

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

[21] Appl. No.: **412,775**

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[51] Int. Cl.⁶ **H04N 3/00**

[52] U.S. Cl. **348/222; 348/552; 348/247**

[58] Field of Search 348/222, 220,
348/223, 232, 242, 230, 247, 246, 251,
254, 13, 12, 187, 466, 143, 148, 157, 159,
17, 6, 468, 552; H04N 3/00, 3/310, 5/232

[56] References Cited

U.S. PATENT DOCUMENTS

3,984,625	10/1976	Camras	178/5.6
4,524,381	6/1985	Konishi	358/29
4,574,319	3/1986	Konishi	358/335
4,962,521	10/1990	Komatsu et al.	379/53
5,042,061	8/1991	Kaneko et al.	379/53
5,045,948	9/1991	Streck et al.	358/194.1
5,063,587	11/1991	Semasa et al.	379/53
5,101,499	3/1992	Streck et al.	455/4
5,164,836	11/1992	Jackson .	
5,191,410	3/1993	McCalley .	
5,202,957	4/1993	Serrao	379/53
5,218,627	6/1993	Corey et al.	379/53
5,220,420	6/1993	Hoarty	358/86
5,257,306	10/1993	Watanabe	379/53
5,264,935	11/1993	Nakajima	358/181
5,461,440	10/1995	Toyoda .	

OTHER PUBLICATIONS

Junko Yoshido, "Set-top box could be budget buster",
Electronic Engineering TIMES, Nov. 29, 1993.

Junko Yoshido, "TV set-top box choices add to cable
confusion", *Electronic Engineering TIMES*, Dec. 6, 1993.

Primary Examiner—John K. Peng

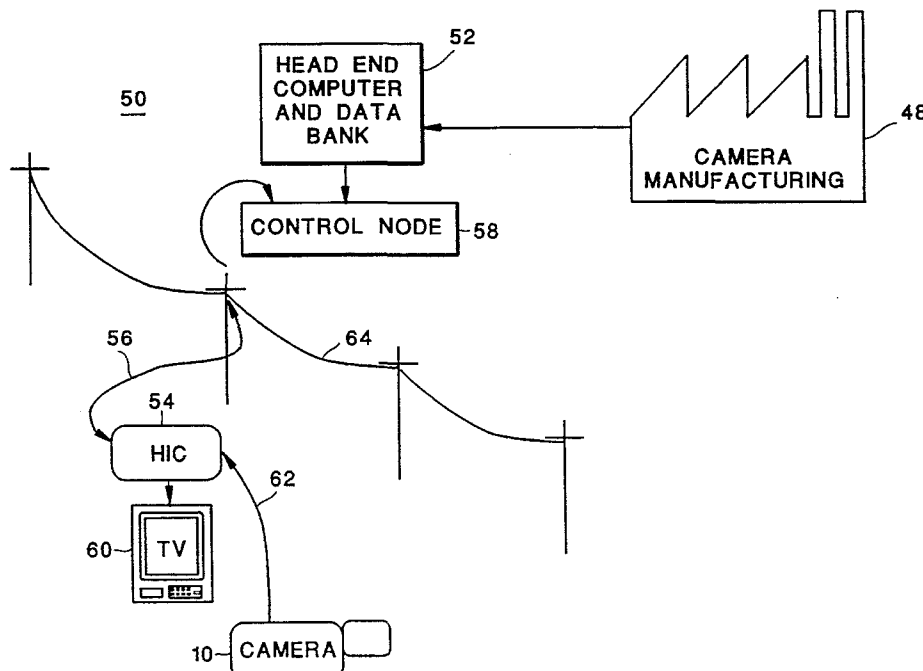
Assistant Examiner—Nathan J. Flynn

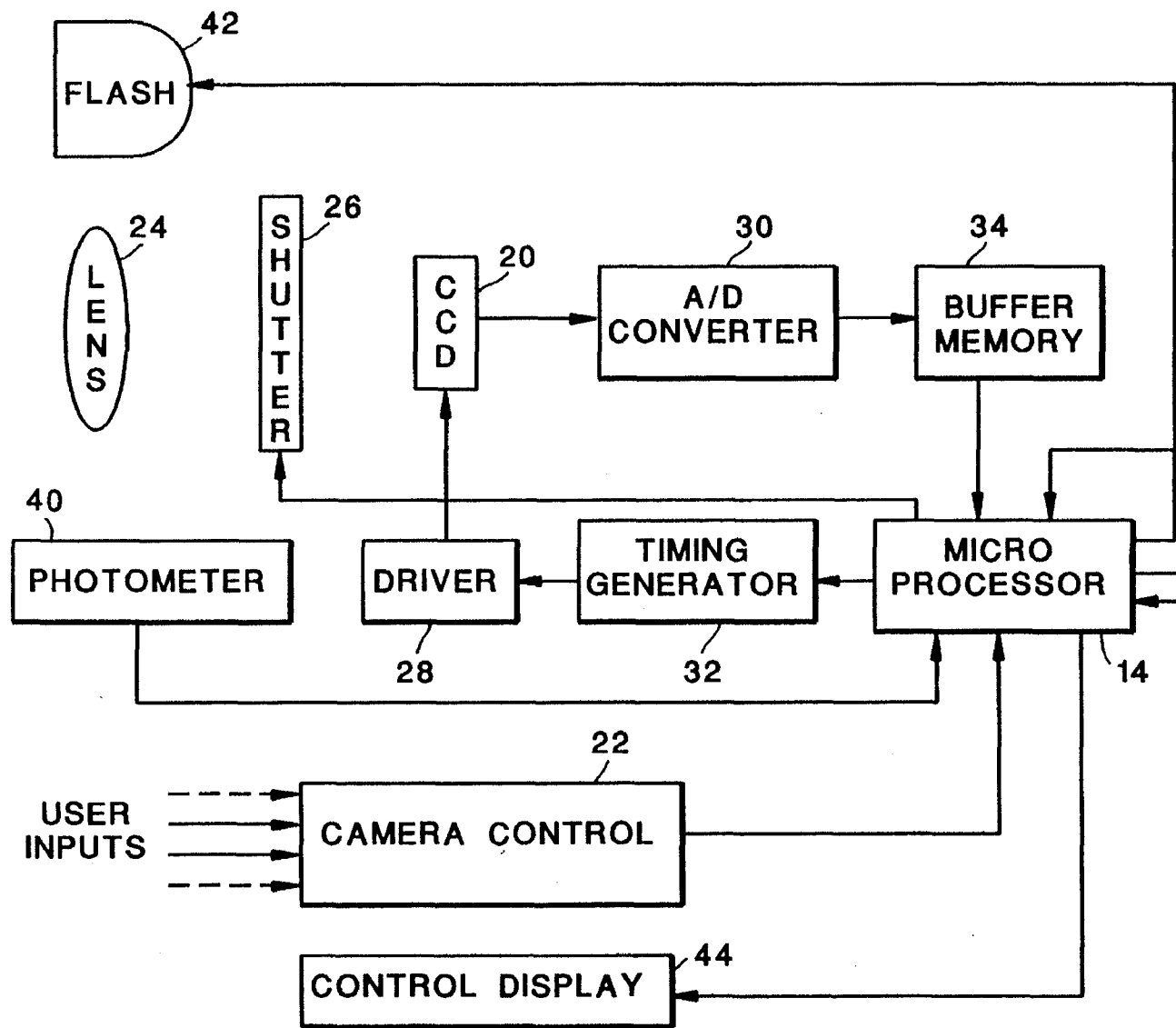
Attorney, Agent, or Firm—David M. Woods

[57] ABSTRACT

A digital still camera and interactive system and method for video display or reproduction of captured images employing an image processing system on an interactive network for receiving and converting a captured raw, digitized image information set into a display image format for display as a video image, storage, and/or reproduction as a print. A simplified digital camera without signal compensating and processing circuits is employed by a user to capture an image and to transmit the raw image information sets along with a camera identification code through an interactive television network to an interactive control node for processing with color correction and pixel defect correction using the cameras correction and defect maps and other image enhancement, and to convert the processed image data to the specified display image format. The processed video display signal is transmitted back to the user's or other designated receiver's interactive television home interface controller. The camera specific, correction maps and the color and defect correction algorithms may be provided by the camera manufacturer to the network on registration of the camera and accessed or downloaded by the user or the user's designee. Processing of the raw image information sets may be at a control node within the network or in the user's home interface controller.

30 Claims, 5 Drawing Sheets





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FIG

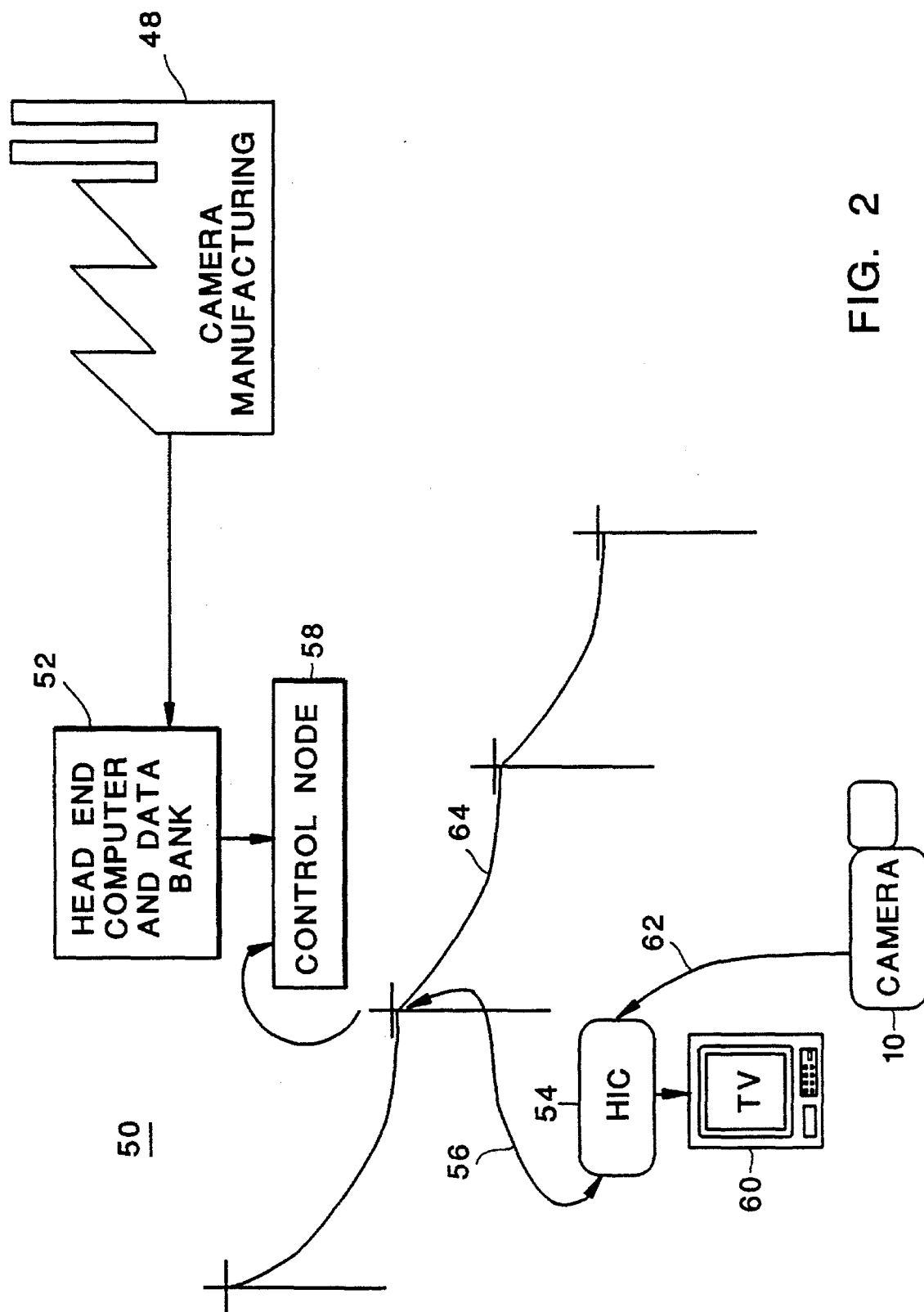


FIG. 2

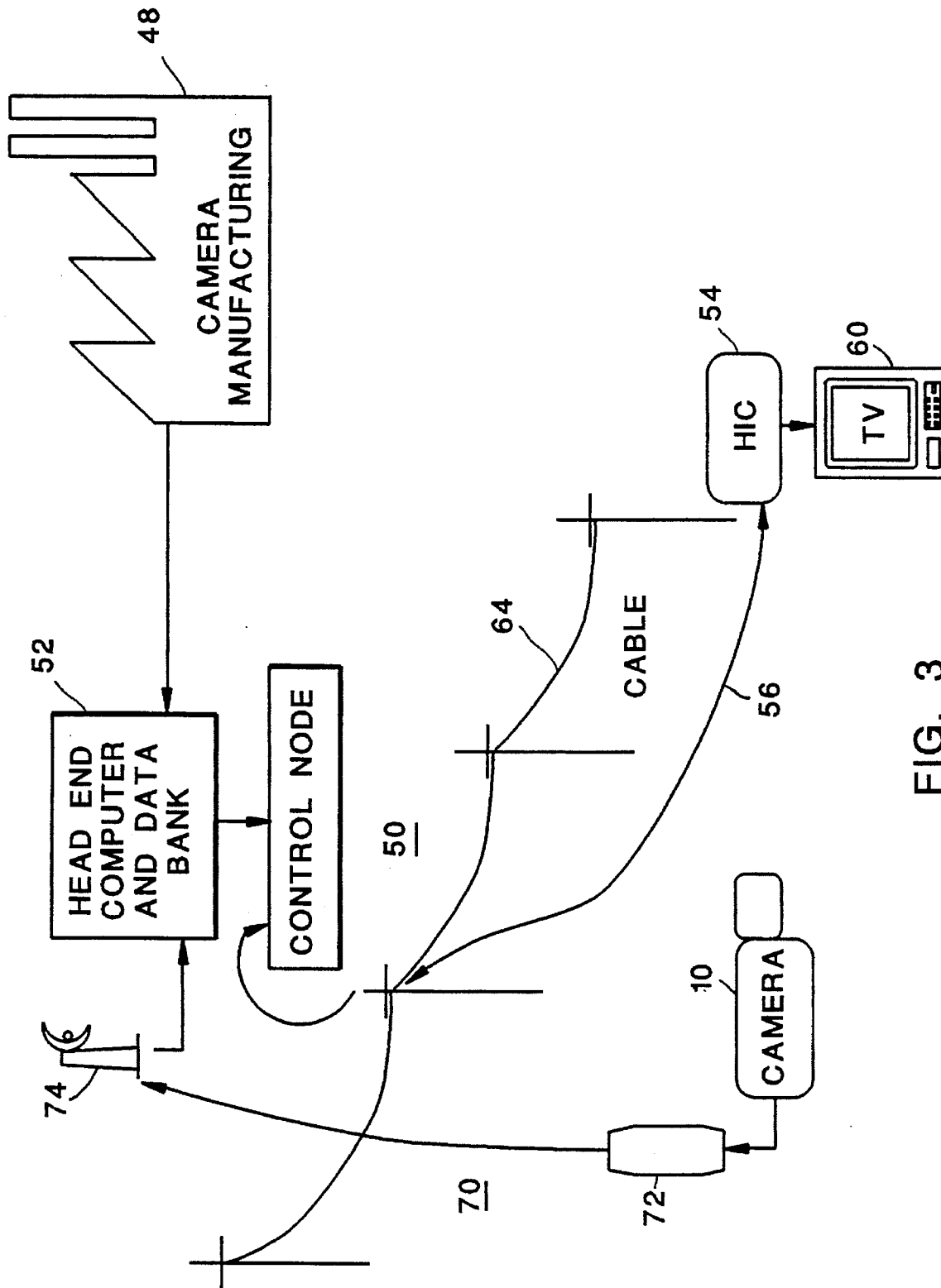
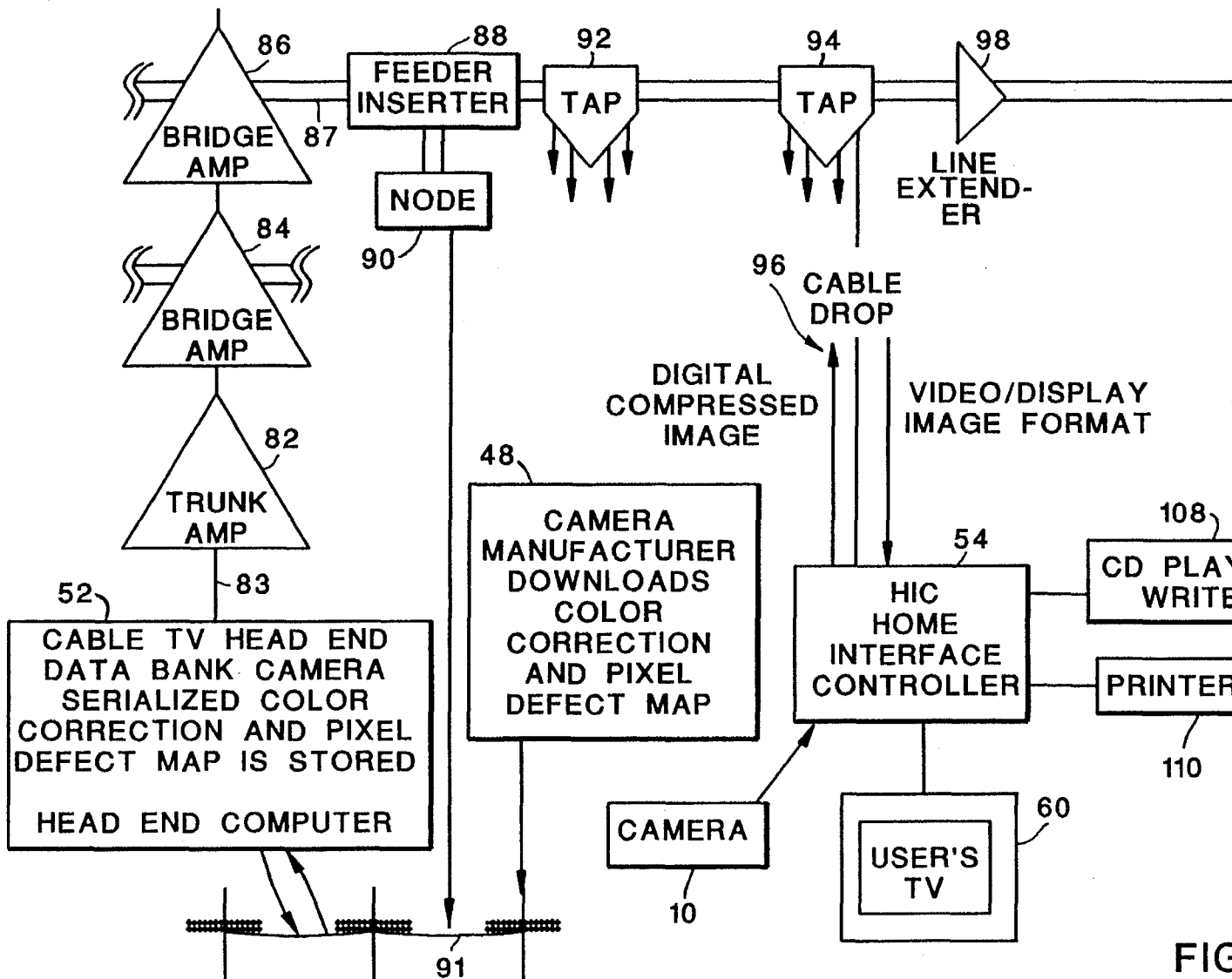


FIG. 3



FIG

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