

# EXHIBIT 1023



US005325202A

# United States Patent [19] Washino

[11] Patent Number: **5,325,202**  
[45] Date of Patent: **Jun. 28, 1994**

- [54] VIDEO FIELD-PRODUCTION CAMERA CONTROL SYSTEM
- [76] Inventor: **Kinya Washino**, 80 Hamilton Ave., Dumont, N.J. 07624
- [21] Appl. No.: **45,255**
- [22] Filed: **Apr. 13, 1993**
- [51] Int. Cl.<sup>5</sup> ..... **H04N 5/262**
- [52] U.S. Cl. .... **348/222; 3484/373; 3484/705; 3484/722; 3484/372**
- [58] Field of Search ..... **358/185, 149, 160, 86, 358/181, 210, 83, 335, 86; H04N 5/08, 5/262, 5/14**

Future Productions Inc. "Breakthrough in Video Production and Duplication".  
 3-Chip CCD Studio/OB Color Camera System BVP-370, BVP 270.  
 3-Chip CCD Portable Color Camera BVP-70/70P.

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*Attorney, Agent, or Firm*—Krass & Young

### [57] ABSTRACT

A video field-production control system is adapted for use with video cameras supplied by various manufacturers, including cameras that utilize cable-oriented remote-control units associated with electronic news gatherings (ENG). An industry standard mounting frame holds a central control unit with interface modules dedicated to each camera to be used by the system, as well as a power supply, master synchronization generator and production switcher, all common to each installed interface module. In addition to providing customized connectors and cables to the attached equipment, each module provides for cable compensation and gain adjustment of composite and component video signals from the camera to the switcher plus phase adjustment of the master sync signal to the camera through an adapter further capable of providing the voltages necessary to power the camera.

### [56] References Cited

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Robinson, "The Video Primer", 1983 p. 235, 267, 268 and 350.

17 Claims, 4 Drawing Sheets

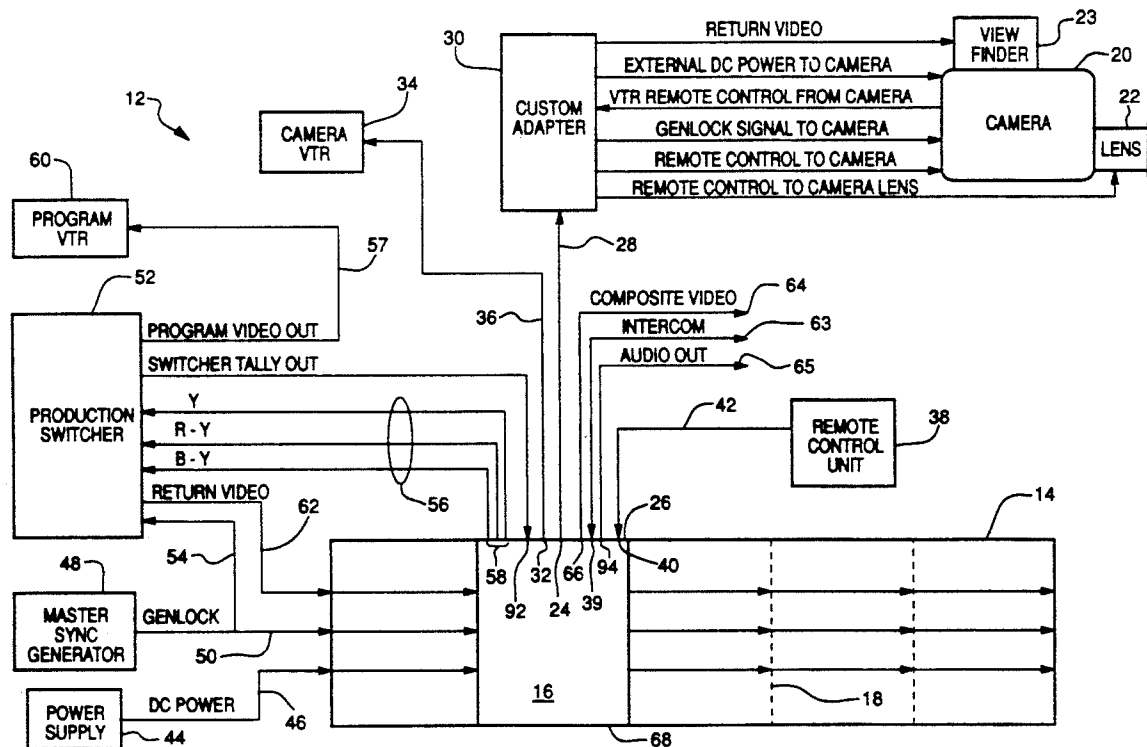
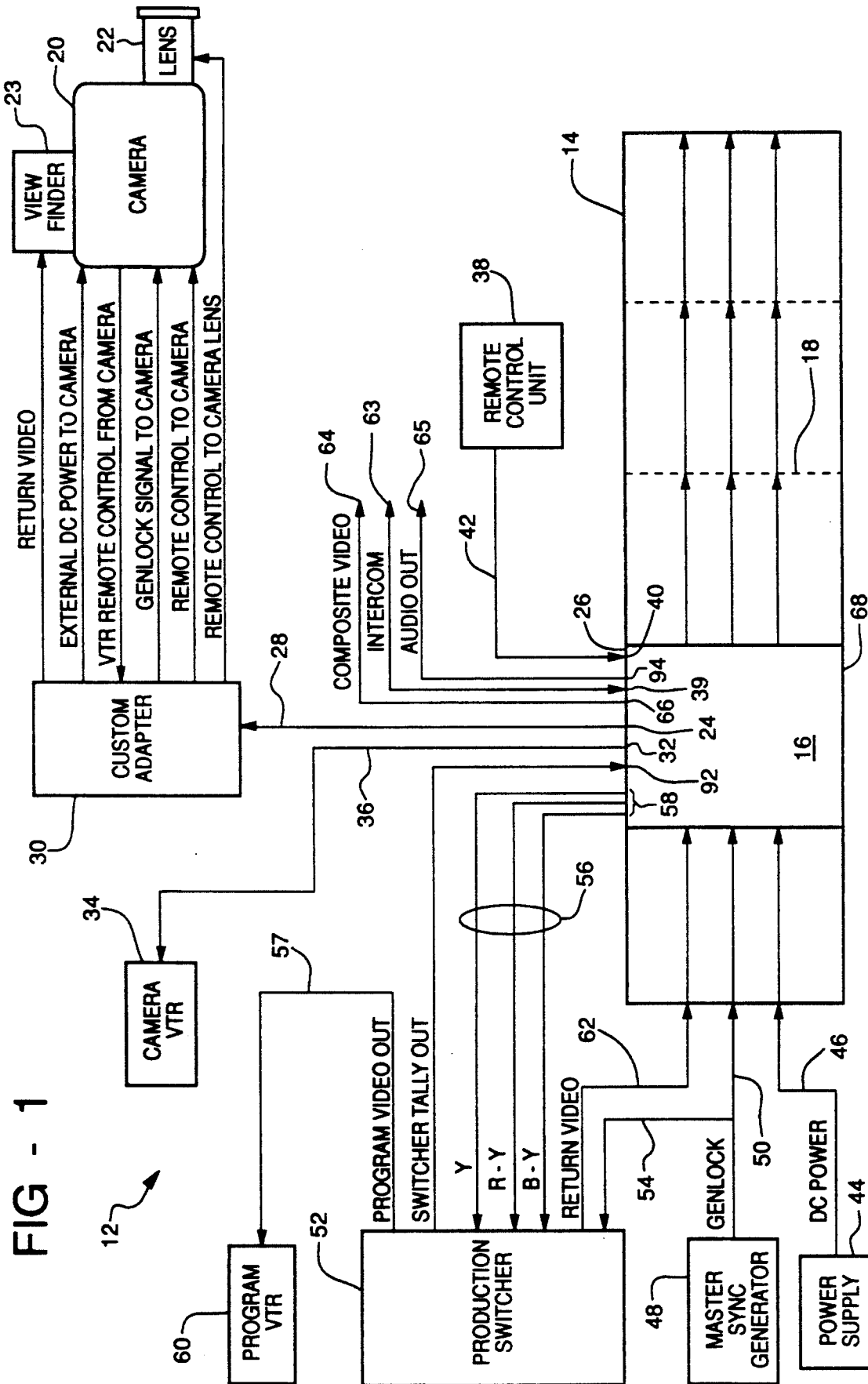


FIG - 1



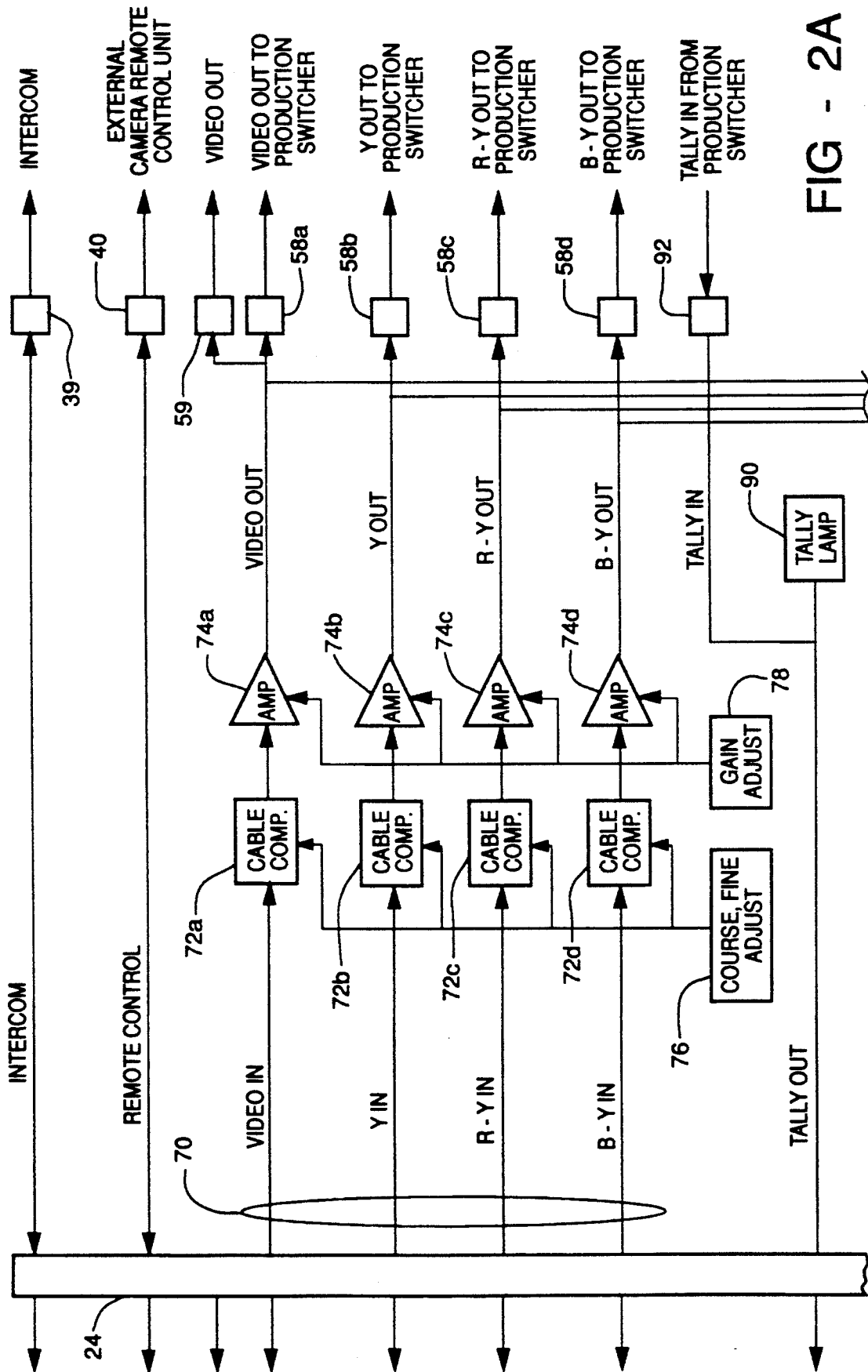


FIG - 2A

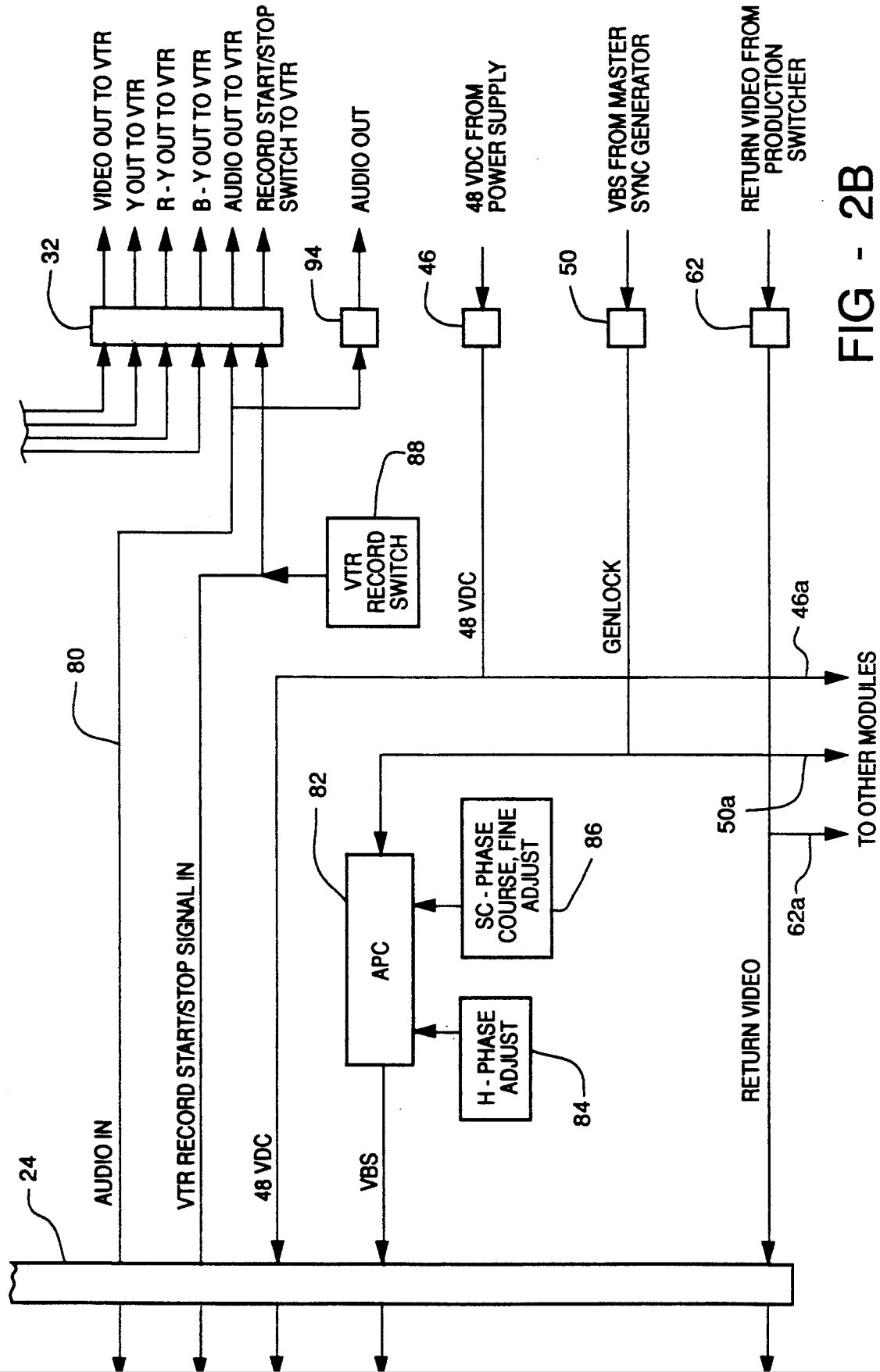


FIG - 2B

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