

[54] **METHOD AND APPARATUS FOR CREATING ENCRYPTED AND DECRYPTED TELEVISION SIGNALS**

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Related U.S. Application Data

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[51] **Int. Cl.⁴** H04N 7/167; H04N 11/06

[52] **U.S. Cl.** 380/11; 358/12; 380/20

[58] **Field of Search** 358/120, 123, 12, 114, 358/119

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ABSTRACT

[57] A method and apparatus for creating a television signal and encrypting or decrypting the signal at the same time. Luminance and chrominance information are received by the apparatus and stored in separate television scan line stores. The stored luminance and chrominance information is read out from their respective stores at a frequency corresponding to a desired format or standard to create the television signal. The signal may be simultaneously encrypted or decrypted by delaying the time at which the luminance and/or chrominance information is read out in accordance with an encryption or decryption key.

24 Claims, 19 Drawing Figures

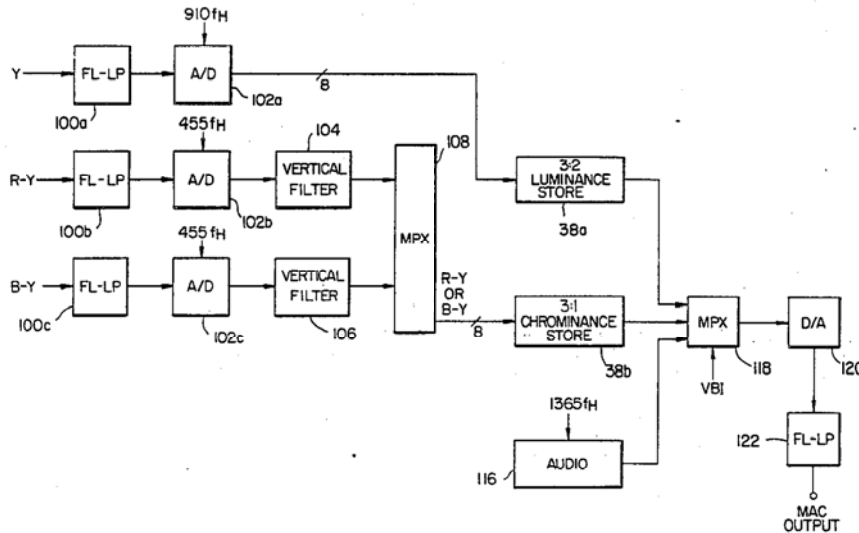
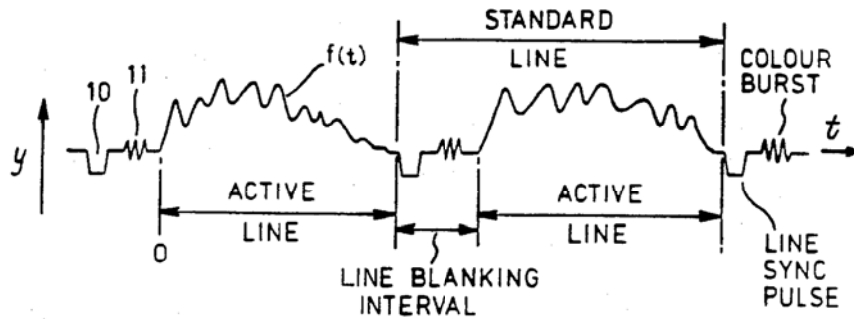


FIG. 1.



STANDARD LINE BLANKING INTERVAL LINE N+1

FIG. 2a.

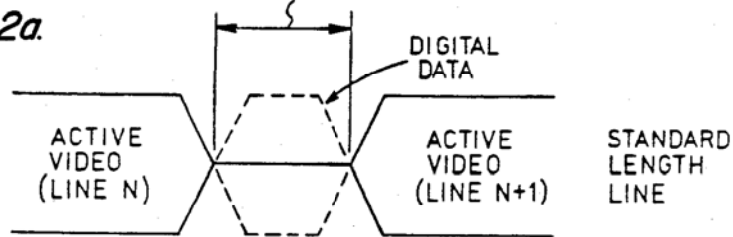


FIG. 2b.

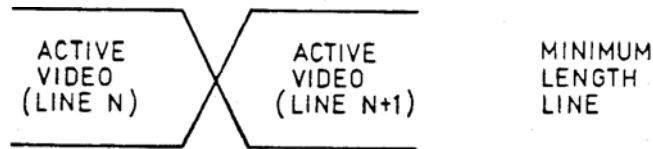
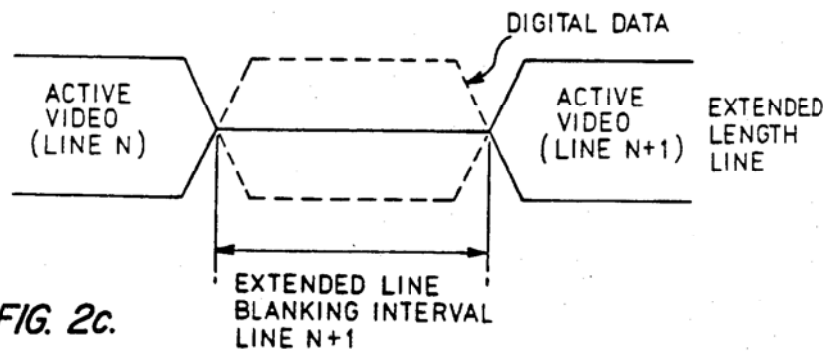


FIG. 2c.



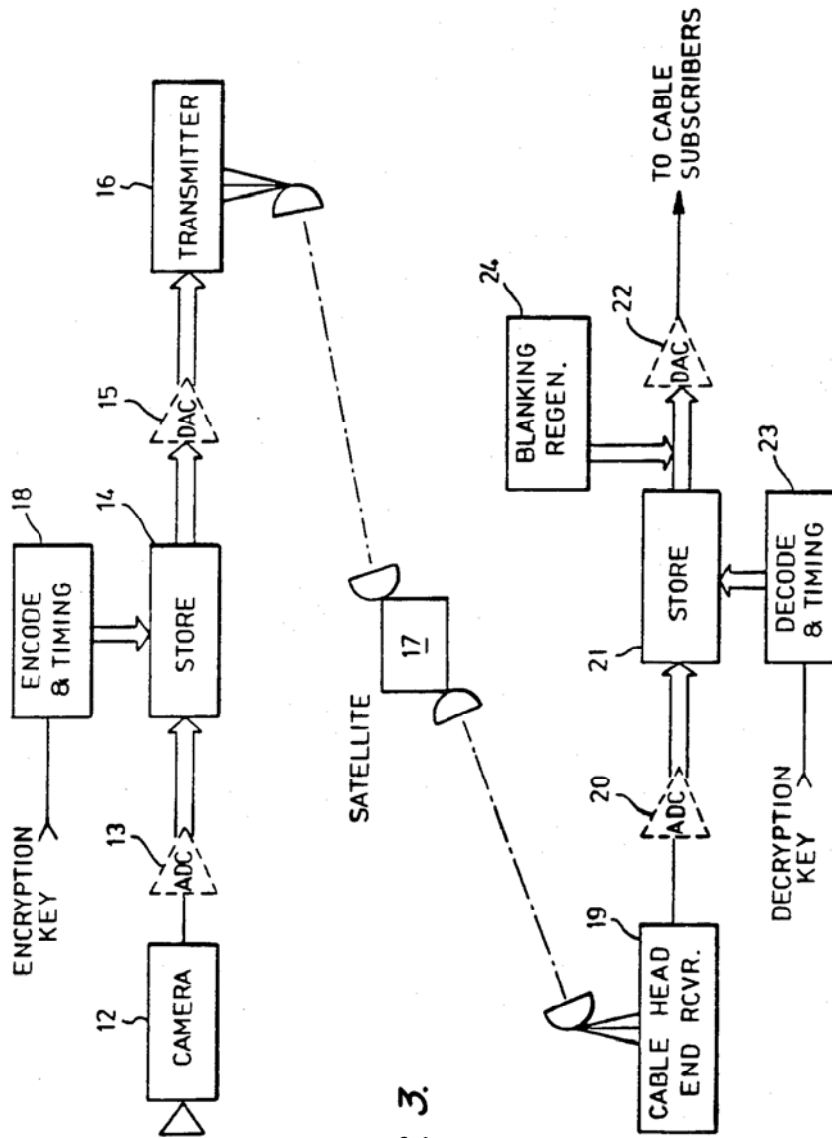


FIG. 3.

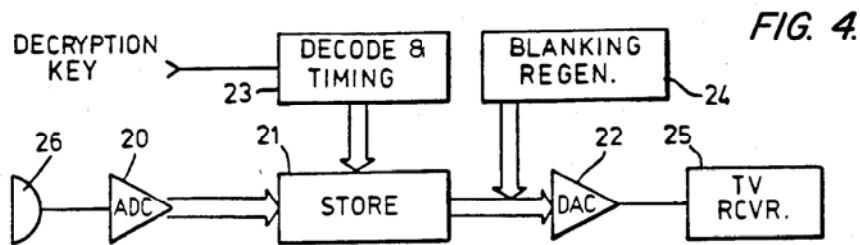


FIG. 4.

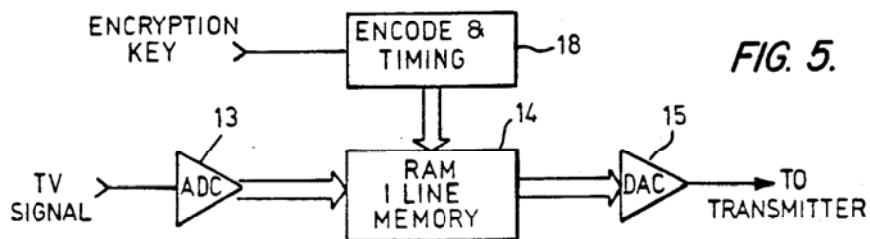


FIG. 5.

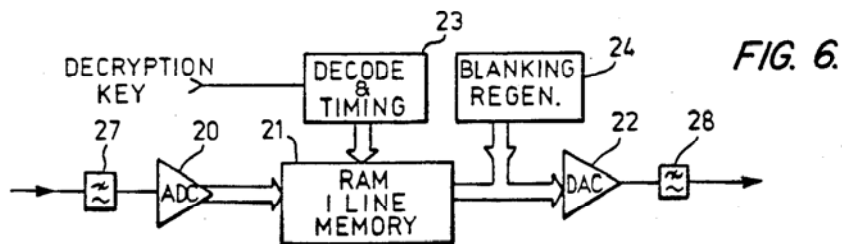


FIG. 6.

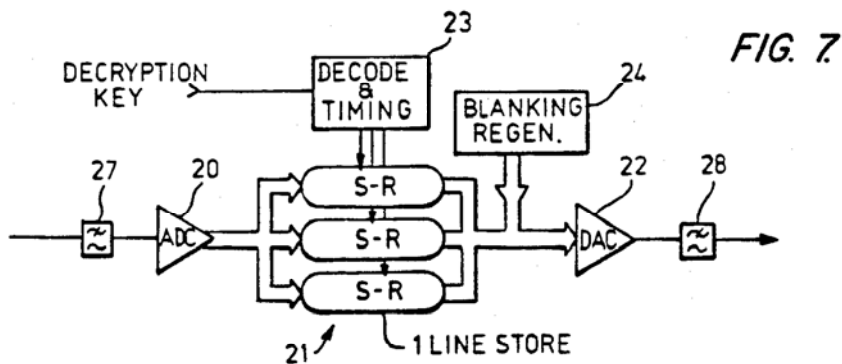
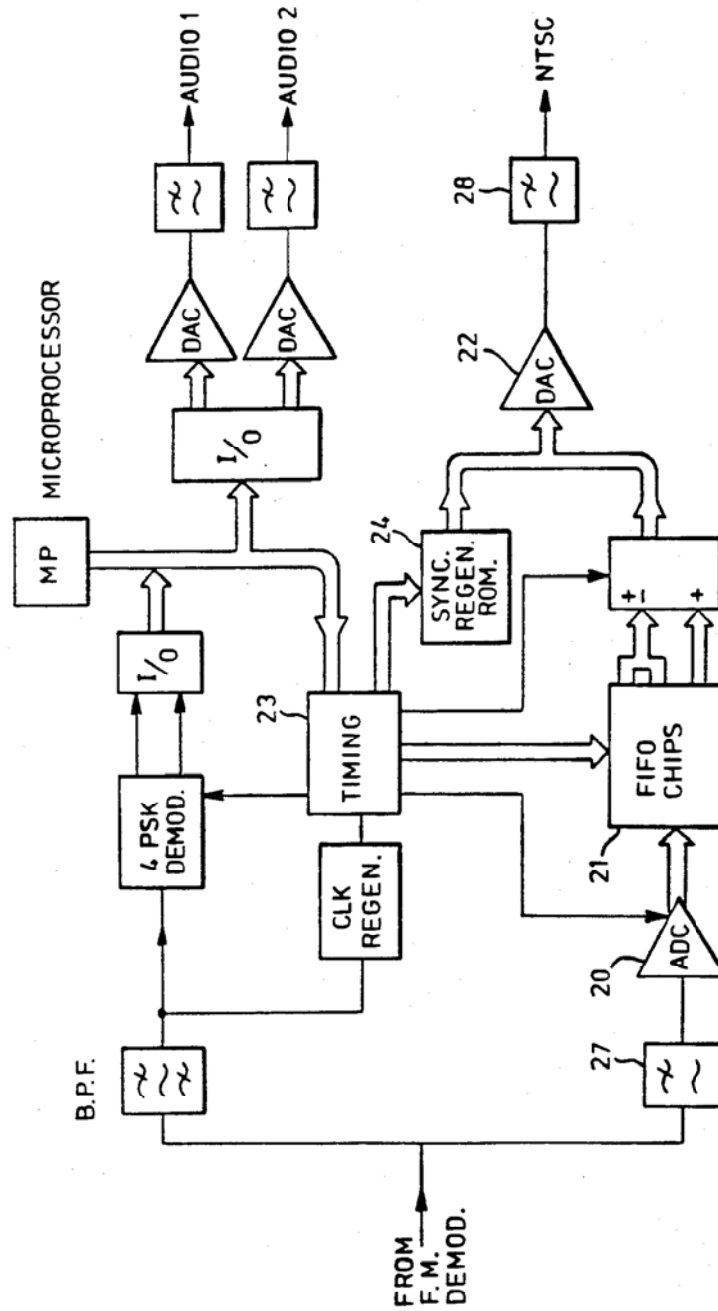


FIG. 7.

FIG. 8.



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