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**Landry et al.**

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(54) **WIRELESS EXTENSION FOR CABLE TELEVISION SIGNALS**

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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 503 days.

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**H04N 5/38** (2006.01)  
**H04N 7/18** (2006.01)  
(52) **U.S. Cl.** ..... **348/723; 725/81; 725/78**  
(58) **Field of Classification Search** ..... **348/723, 348/724, 725; 725/81, 82, 78, 85**  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,682,195 A \* 10/1997 Hendricks et al. .... 725/31  
6,263,503 B1 \* 7/2001 Margulis ..... 725/81  
2002/0038459 A1 \* 3/2002 Talmola et al. .... 725/81

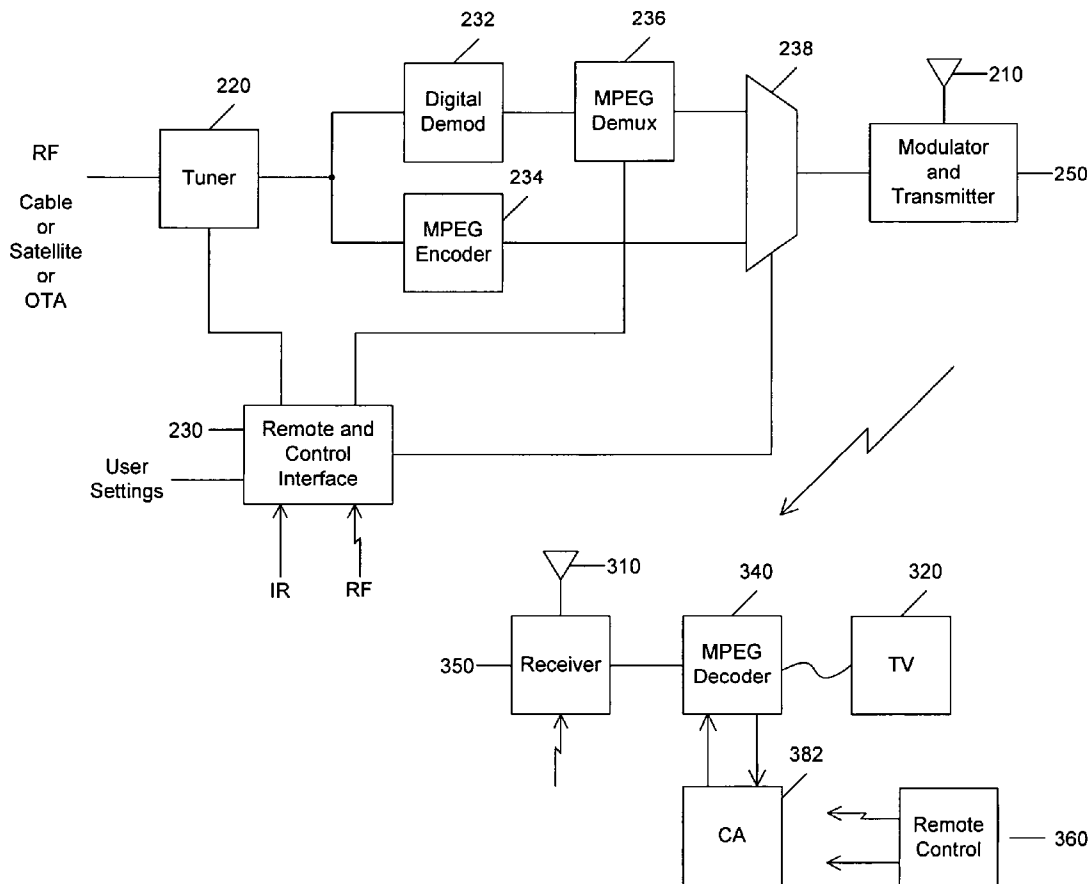
\* cited by examiner

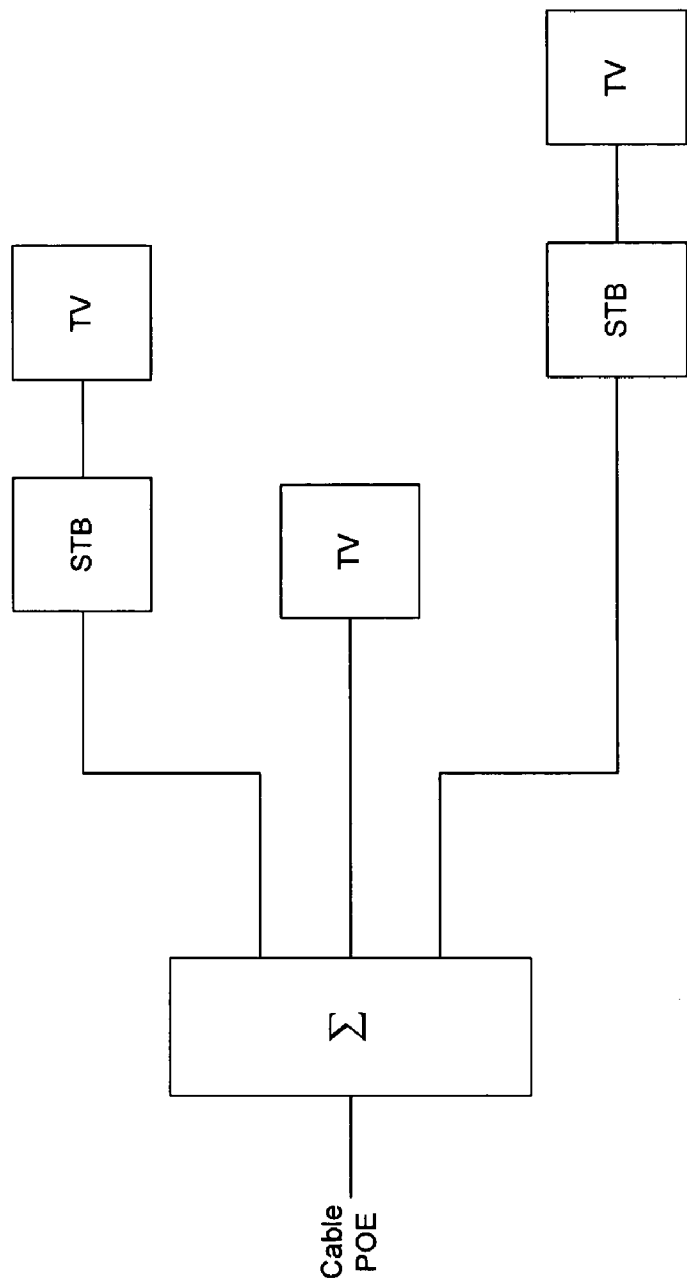
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(57) **ABSTRACT**

A wireless link provides an extension to cable television signals for a television receiver that does not have access to a coaxial cable. Analog and digital cable channels are processed and transmitted over the wireless link. Security of the signal is provided by transmitting encrypted data and decrypting at the receiving node. The conditional access encryption inherent in the data can insure communication security or encryption may be performed at the transmitting node.

**5 Claims, 9 Drawing Sheets**





Prior Art

Fig. 1

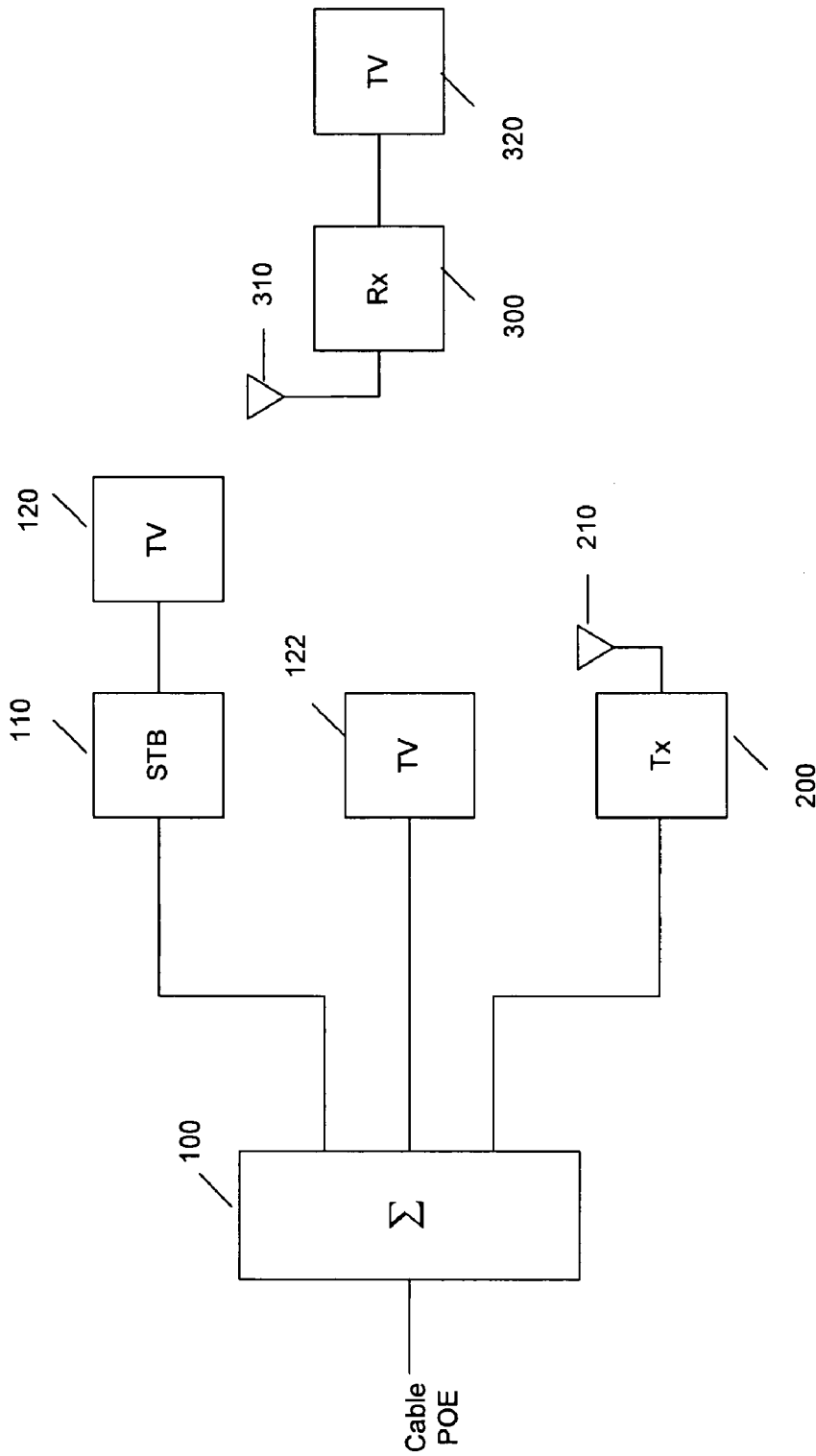


Fig. 2

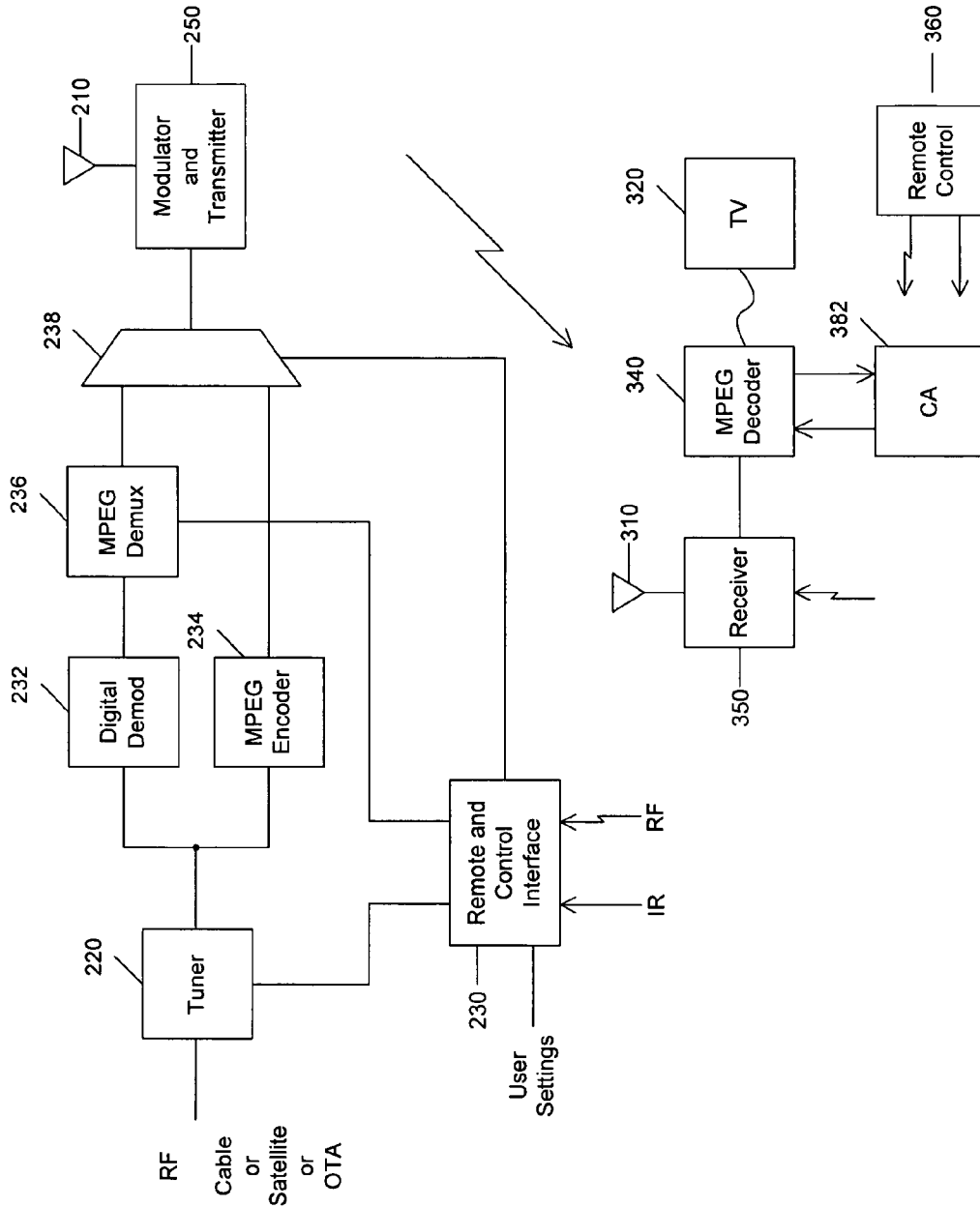


Fig. 3

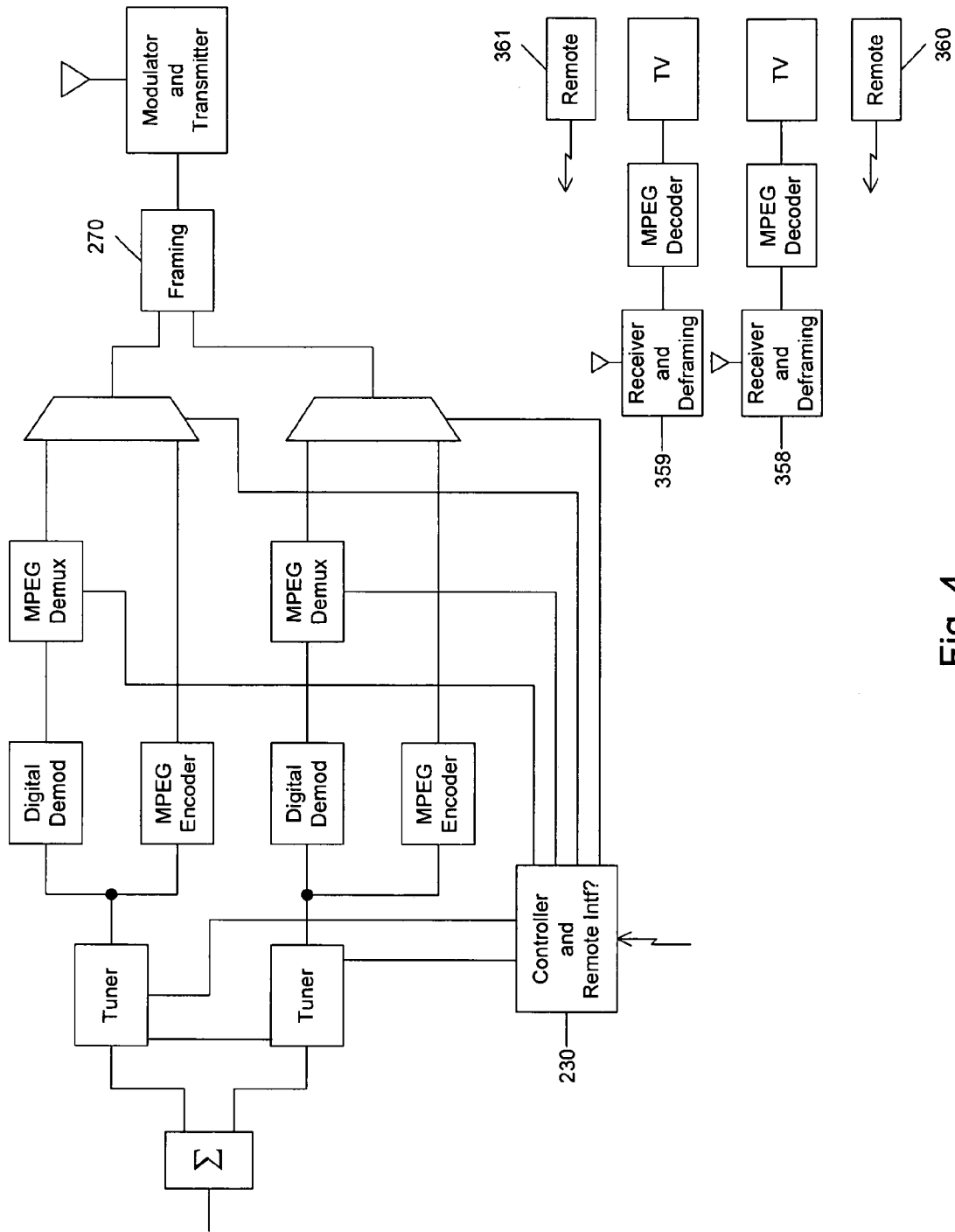


Fig. 4

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