



# United States Patent [19]

[11] **Patent Number:** **5,805,700**

**Nardone et al.**

[45] **Date of Patent:** **Sep. 8, 1998**

[54] **POLICY BASED SELECTIVE ENCRYPTION OF COMPRESSED VIDEO DATA**

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[75] Inventors: **Joseph M. Nardone**, Portland, Oreg.; **Keith L. Shippy**, Tempe, Ariz.; **David W. Aucsmith**, Portland, Oreg.

*Primary Examiner*—Stephen C. Buczinski  
*Attorney, Agent, or Firm*—Blakely, Sokoloff, Taylor & Zafman

[73] Assignee: **Intel Corporation**, Santa Clara, Calif.

[21] Appl. No.: **730,065**

[57] **ABSTRACT**

[22] Filed: **Oct. 15, 1996**

Basic transfer units (BTUs) of compressed video data of video images are selectively encrypted in accordance with an encryption policy to degrade the video images to at least a virtually useless state, if the selectively encrypted compressed video images were to be rendered without decryption. As a result, degradation that approximates the level provided by the total encryption approach is achieved, but requiring only a fraction of the processor cycle cost required by the total encryption approach, to decrypt and render the video images.

[51] **Int. Cl.<sup>6</sup>** ..... **H04N 7/167**

[52] **U.S. Cl.** ..... **380/10; 380/20**

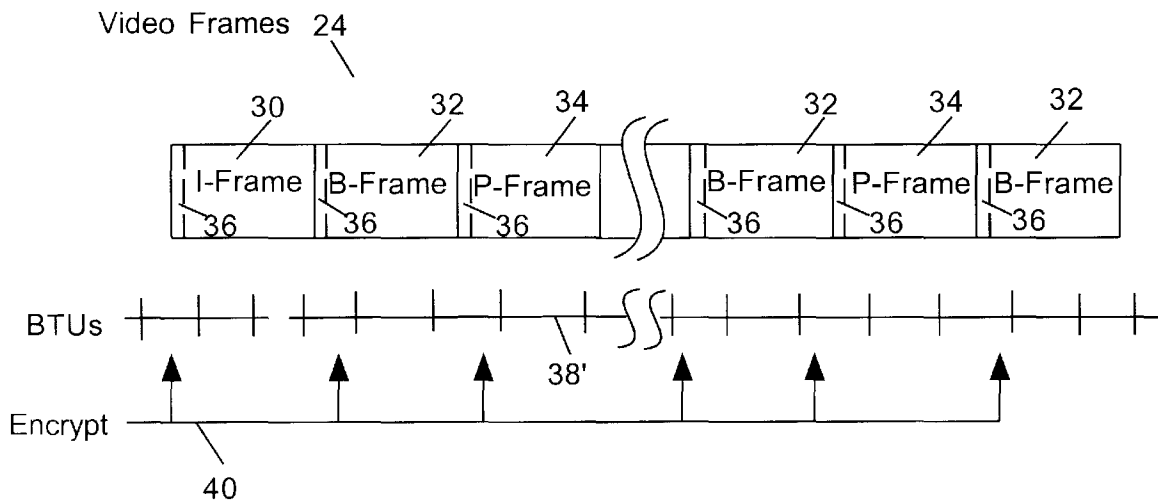
[58] **Field of Search** ..... 380/20, 10

[56] **References Cited**

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**19 Claims, 6 Drawing Sheets**



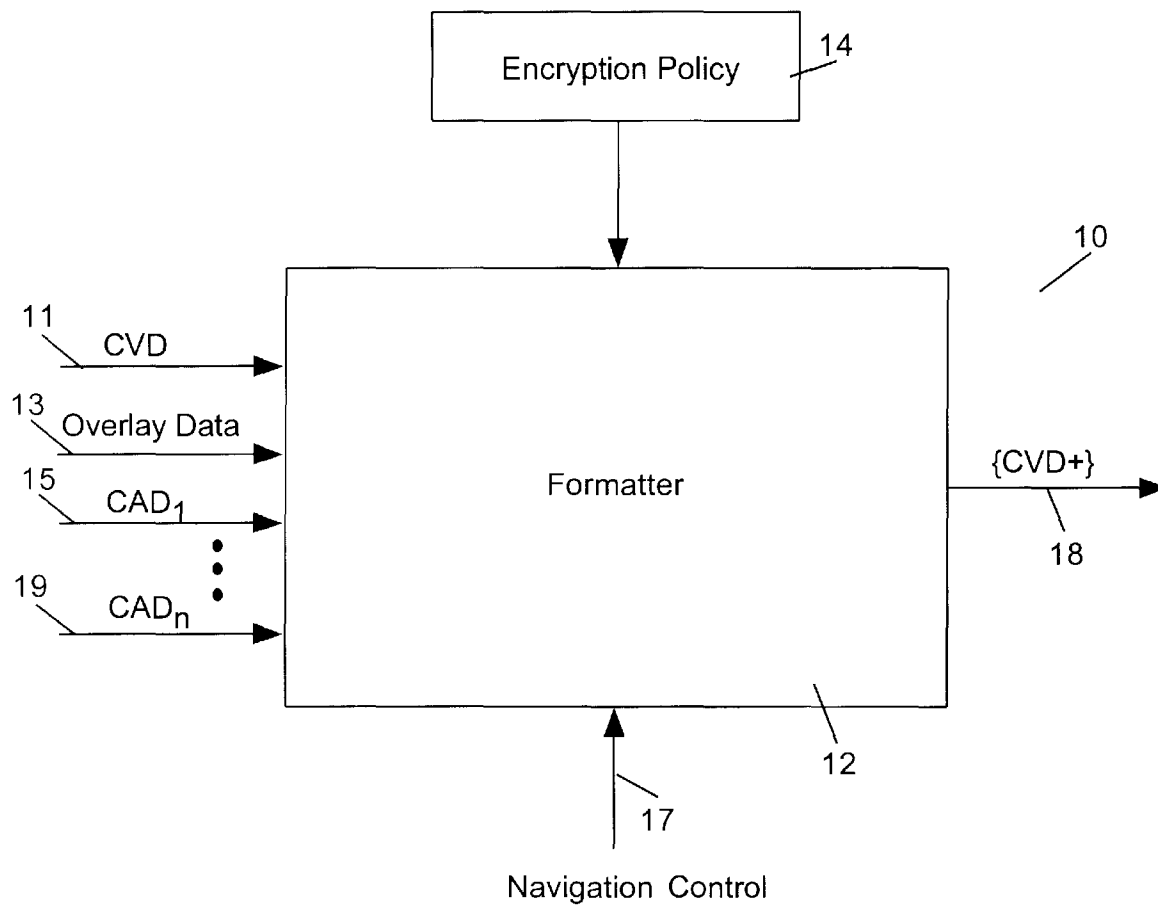


Figure 1

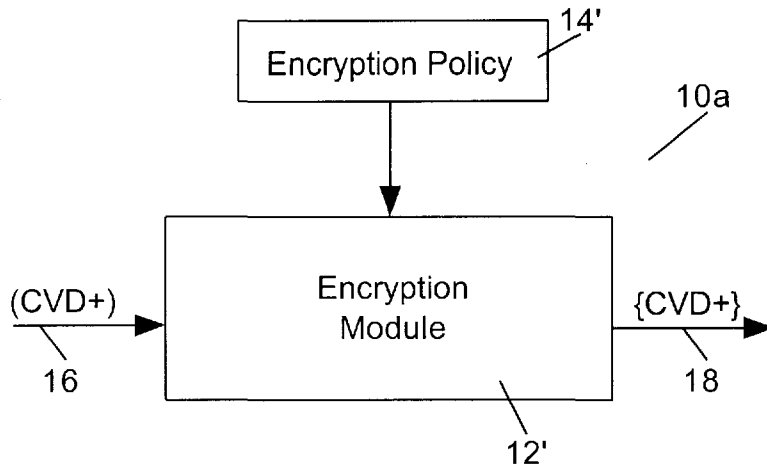


Figure 5

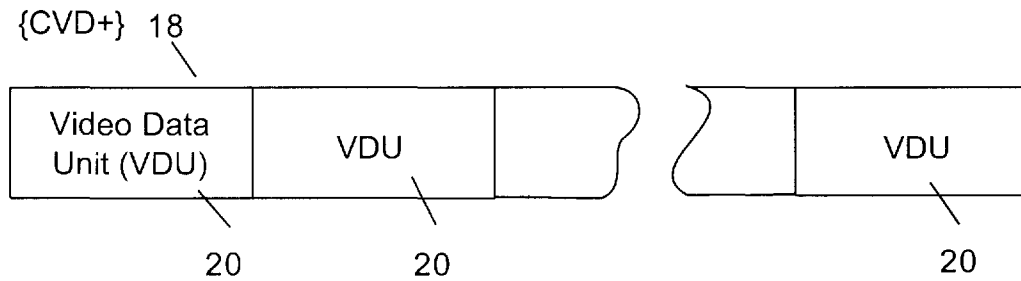


Figure 2

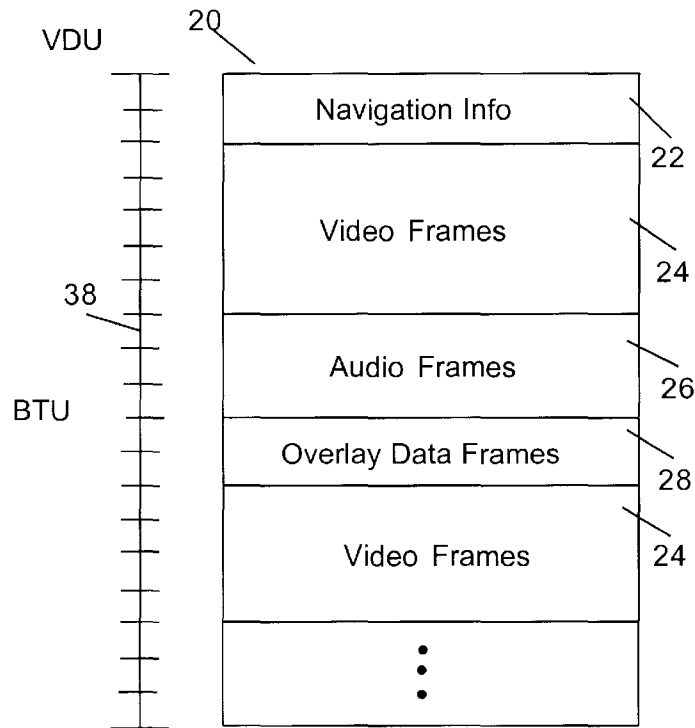


Figure 3

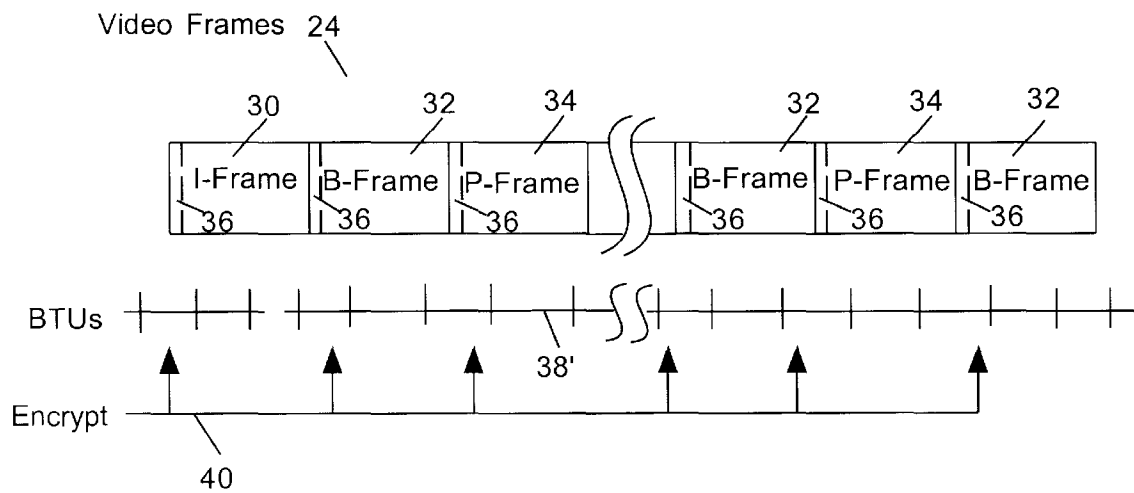


Figure 4

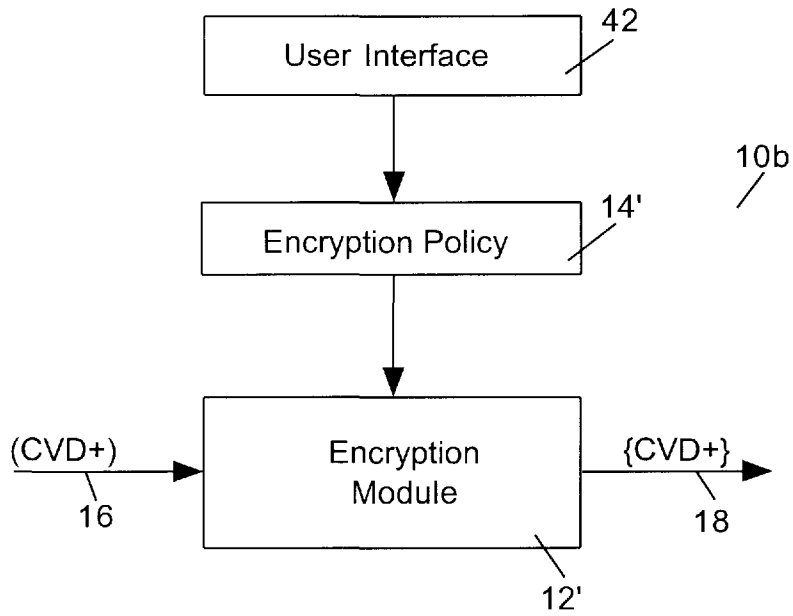


Figure 6

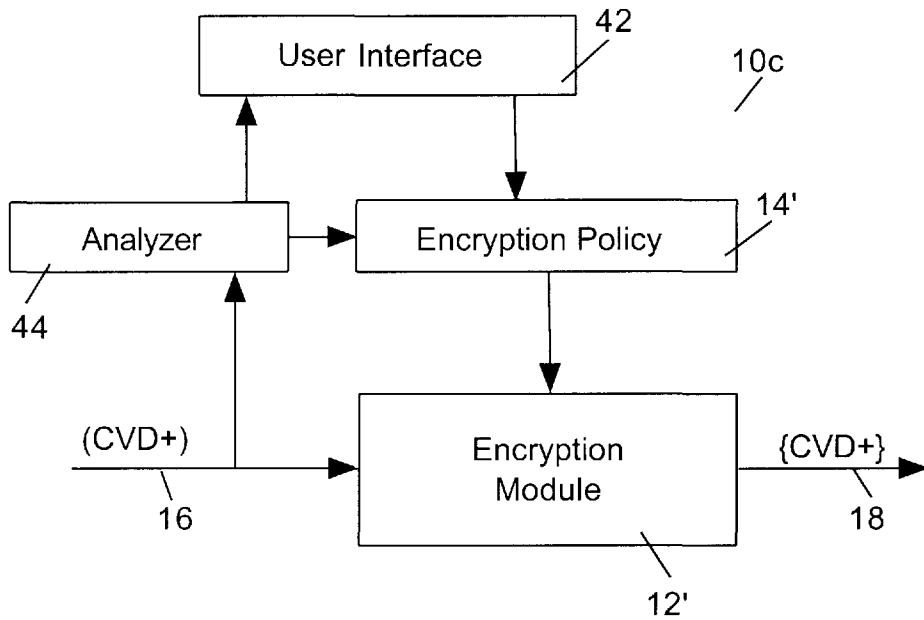


Figure 7

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