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United States Patent [19]

Lee

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[54] APPARATUS FOR COMPRESSION-ENCODING AND DECODING VIDEO SIGNALS

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[73] Assignee: Goldstar Co., Ltd., Seoul, Rep. of

Korea

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[22] Filed: Apr. 6, 1993

[30] Foreign Application Priority Data

Apr.	11, 1992	[KR]	Rep. of Korea	6061/1992
[51]	Int. Cl.6			H04N 7/48
[52]	U.S. Cl.		348/392 ; 34	8/409; 348/412;

[56] References Cited

U.S. PATENT DOCUMENTS

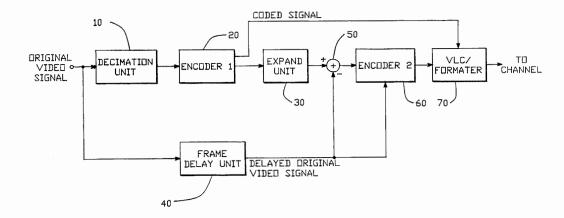
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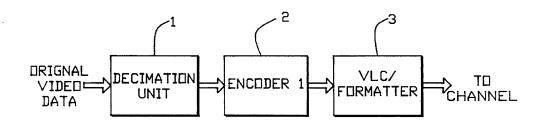
Primary Examiner—Howard W. Britton Attorney, Agent, or Firm—Flicsler, Dubb, Meyer & Lovejoy

[57] ABSTRACT

An apparatus for compression-encoding and decoding digital video signals, capable of additionally transmitting a differential signal indicative of a difference between an original video signal and an encoded video signal obtained by encoding the original video signal by an existing video compression system, so as to efficiently cope with a varied bandwidth of a recording medium or a channel. The apparatus comprises an encoding device for encoding an original digital video in a sampling manner, encoding a differential signal indicative of a difference between each of the original video signals and a signal obtained by expanding each corresponding one of the encoded original video signals, together with edge information, adding the encoded composite differential signal to the encoded original video signal, and outputting the resulting signal. The apparatus also comprises a decoding device for decoding each of the encoded original video signals, reading video signals, indicative of video portions including no differential signal, from video signals resulting from the decoding of the encoded original video signals, based on the edge information, adding each of the differential signals to each corresponding one of the read video signals, and outputting recovered video signals.

9 Claims, 6 Drawing Sheets

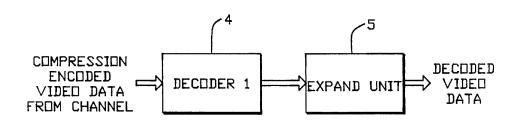




Nov. 21, 1995

PRIOR ART

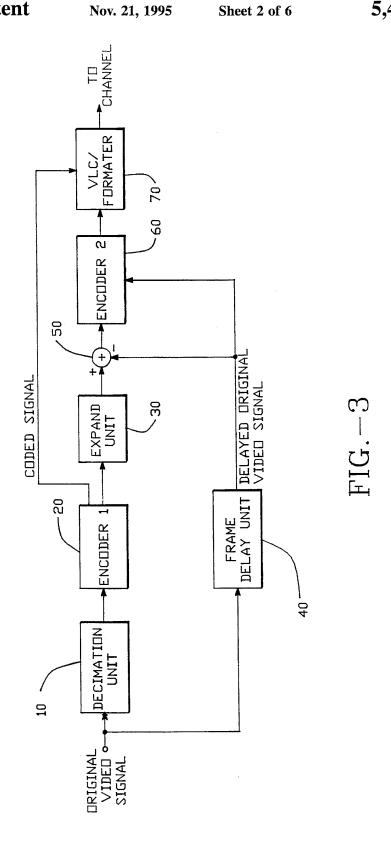
FIG.-1

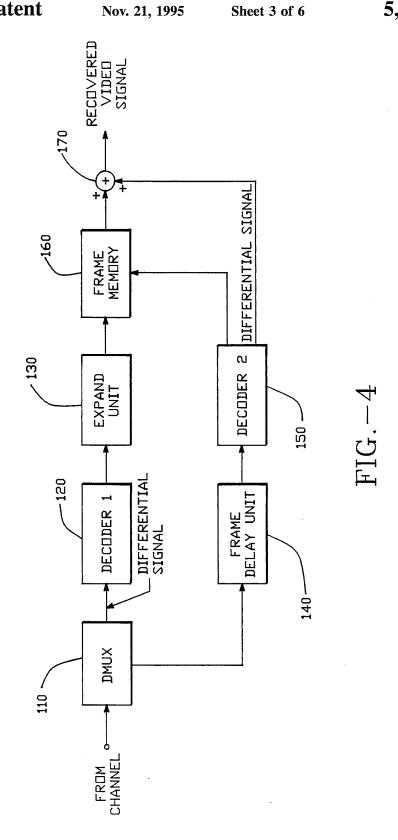


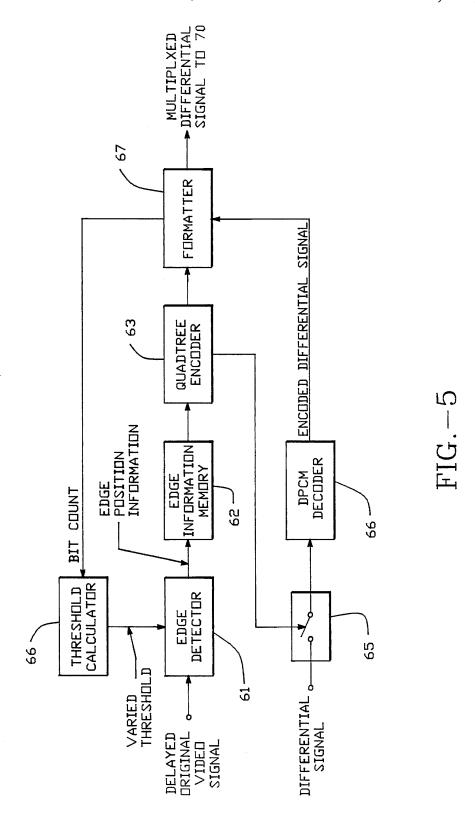
PRIOR ART

FIG.-2

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